

# P.A.S. KIT

The kit contains:

BioSchiff reagent HCL reagent, P.A.S. Hematoxylin ML Periodic acid, 0.8% solution Sodium metabisulphite, solution



Page 1 of 17

| Trading name: | BIOSCHIFF REAGENT |                      |             |          |   |  |
|---------------|-------------------|----------------------|-------------|----------|---|--|
| Product code: | BS-OT-X**         | Date of compilation: | 17 Jan 2024 | Version: | 5 |  |

| <b>SECT</b> | Product identifier                               | the substance              | e/mixture  | e and of the company/undertaking       |  |
|-------------|--|----------------------------|--|--|--|
| •••         | Trading name:                                    | BIOSCHIFF                  | REAGENT  |  |  |
|             | Chemical name:                                   | -                          |  |  |  |
|             | Catalogue number:                                | BS-OT-X**                  |  |  |  |
| 1.2         |  | es of the subs             | tance or n   | nixture and uses advised against       |  |
|             | Uses:  |                            | For dete   | cting aldehydes and mucous substances. |  |
|             | Uses advised against:                            |                            | Only the   | e identified uses are advised.         |  |
|             | Reason why uses advised against:                 |                            | The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes. |  |  |
| 1.3         | Details of the supplier of the safety data sheet |                            |  |  |  |
|             | Supplier:  |                            | BioGnost Ltd.  |  |  |
|             | Address:   |                            | Medjugorska 59, Zagreb   |  |  |
|             | Telephone number:                                |                            | +385 1 2409997   |  |  |
|             | Telefax.:  |                            | +385 1 2404039   |  |  |
|             | e-mail of competent p                            | erson:                     | msds@biognost.hr   |  |  |
|             | National contact:                                |                            | -  |  |  |
| 1.4         | Emergency telephone                              | Emergency telephone number |  |  |  |
|             | National Protection ar                           | nd Rescue Dire             | ectorate:  | 112                                    |  |
|             | Medical information:                             |                            |  | +385 1 2348 342                        |  |
|             | Other information:                               |                            |  | -                                      |  |

| SECTION 2. Hazards identification |                                  |                               |          |  |  |
|-----------------------------------|----------------------------------|-------------------------------|----------|--|--|
| 2.1                               | Classification of the substance  | r mixture                     |          |  |  |
| 2.1.1                             | Classification according to Reg  | ation (EC) No 1272/2008 (CLP) |          |  |  |
|                                   | Hazard class and catego          | y code: Hazard stat           | ements*: |  |  |
|                                   | -                                | EUH031                        |          |  |  |
| 2.1.2.                            | Additional information           |                               |          |  |  |
|                                   | -                                |                               |          |  |  |
| *For ful                          | l text of Hazard- and EU Hazard- | atements: see SECTION 16      |          |  |  |
| 2.2                               | Label elements                   |                               |          |  |  |
|                                   | Product identification:          | BIOSCHIFF REAGENT             |          |  |  |
|                                   | Identification number:           | -                             |          |  |  |
|                                   | Authorization number: -          |                               |          |  |  |
|                                   | Hazard pictograms:               | -                             |          |  |  |



Page 2 of 17

| Trading name: | BIOSCHIFF REAGENT |                      |             |          |   |
|---------------|-------------------|----------------------|-------------|----------|---|
| Product code: | BS-OT-X**         | Date of compilation: | 17 Jan 2024 | Version: | 5 |

|     | Signal word:  | -   |
|-----|---|---|
|     | Hazard statements:                                  | EUH031 Contact with acids liberates toxic gas.                                |
|     | Precautionary statements:                           | P281 Use personal protective equipment as required.                           |
|     | Supplemetal hazard information (EU):                | -   |
| 2.3 | Other hazards                                       |   |
|     | Endocrine Disrupting Prope                          | erties:   |
|     | No known endocrine disrupt                          | ing properties  |
|     | <b>Results of PBT and vPvB as</b><br>PBT or a vPvB. | sessment: According to the results of its assessment, this substance is not a |

| SECTION 3. Co                            | SECTION 3. Composition/information on ingredients |                                |  |   |  |  |
|--|---|--------------------------------|--|---|--|--|
| CAS/<br>EC/<br>Index number              | REACH Registration<br>No                          | Weight % content<br>(or range) | Identification name  | Classification<br>according to<br>Regulation (EC) No<br>1272/2008 (CLP) |  |  |
| 7681-57-4/<br>231-673-0/<br>016-063-00-2 | 01-2119531326-45-<br>XXXX                         | 1 – 3 %                        | sodium metabisulfite   | Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>EUH031                        |  |  |
| 7647-01-0/<br>231-595-7/<br>017-002-01-X | 01-2119484862-27-<br>XXXX                         | 0.7 – 1 %                      | hydrochloric acid, 36.5%   | Skin Corr. 1B; H314<br>Acute Tox. 3; H331                               |  |  |
| 569-61-9/<br>209-321-2/<br>611-031-00-X  | -   | < 0.1 %                        | 4,4'-(4-iminocyclohexa-2,5-<br>dienylidenemethylene)<br>dianiline hydrochloride;<br>C.I. Basic Red 9 | Carc. 1B; H350  |  |  |

| SECT | SECTION 4. First aid measures    |   |  |  |
|------|----------------------------------|---|--|--|
| 4.1  | Description of first aid measure | 25  |  |  |
|      | General notes:                   | If the suggested first aid measures do not prove sufficient, seek medical attention.  |  |  |
|      | Following inhalation:            | Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen. |  |  |
|      | Following skin contact:          | Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.                          |  |  |
|      | Following eye contact:           | Rinse out with plenty of water with the eyelid held wide open for<br>at least 20 minutes. If the symptoms remain, immediately call in<br>ophthalmologist.                           |  |  |



Page 3 of 17

| Trading name: | BIOSCHIFF REAGENT |                      |             |          |   |  |
|---------------|-------------------|----------------------|-------------|----------|---|--|
| Product code: | BS-OT-X**         | Date of compilation: | 17 Jan 2024 | Version: | 5 |  |

|     | Following ingestion:                | Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital. |
|-----|-------------------------------------|---|
|     | Self-protection of the first aider: | -   |
| 4.2 | Most important symptoms and effect  | ts, both acute and delayed  |
|     | Following inhalation:               | Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.   |
|     | Following skin contact:             | Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.   |
|     | Following eye contact:              | Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.   |
|     | Following ingestion:                | Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.   |
| 4.3 | Indication of any immediate medical | attention and special treatment needed  |
|     | -                                   |   |

| SECTION 5. Firefighting measures |  |   |  |  |
|----------------------------------|--|---|--|--|
| 5.1                              | Extinguishing media  |   |  |  |
|                                  | Suitable extinguishing media:  | Small fire - water spray, dry powder, CO <sub>2</sub><br>Large fire - water spray or alcohol-resistant foam |  |  |
|                                  | Unsuitable extinguishing media:  | Water jet   |  |  |
| 5.2                              | Special hazards arising from the sub   | stance or mixture   |  |  |
|                                  | Hazardous combustion products:   | Sulfur oxides.  |  |  |
| 5.3                              | Advice for firefighters  |   |  |  |
|                                  | Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. |   |  |  |
| 5.4                              | Additional information   |   |  |  |
|                                  | Do not contaminate the environmen  | t with extinguishing media.   |  |  |

| SECTIO | SECTION 6. Accidental release measures |  |  |  |
|--------|--|--|--|--|
| 6.1    | Personal precautions, protective       | equipment and emergency procedures   |  |  |
| 6.1.1. | For non-emergency personnel            |  |  |  |
|        | Protective equipment:                  | Use personal protective equipment (see Section 8).   |  |  |
|        | Accident prevention methods:           | Evacuate members of all non-essential personnel and those members<br>without protective equipment. Avoid breathing vapors and avoid contact<br>with skin and eyes. Do not smoke. |  |  |
|        | Emergency procedures:                  | Mark the area using proper signs.  |  |  |



Page 4 of 17

| Trading name: | BIOSCHIFF REAGENT |                      |             |          |   |  |  |
|---------------|-------------------|----------------------|-------------|----------|---|--|--|
| Product code: | BS-OT-X**         | Date of compilation: | 17 Jan 2024 | Version: | 5 |  |  |

| 6.1.2. | For emergency responders:                                    |   |  |  |  |  |  |
|--------|--|---|--|--|--|--|--|
|        | Use protective equipment; in (see Section 8).                | quipment; in case of inadequate ventilation use adequate airways protective equipment   |  |  |  |  |  |
| 6.2    | Environmental precautions:                                   |   |  |  |  |  |  |
|        | Do not dispose of in sewage,<br>Protection and Rescue Direct | drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.  |  |  |  |  |  |
| 6.3    | Methods and material for cor                                 | ntainment and cleaning up   |  |  |  |  |  |
| 6.3.1. | Bunding, covering of drains;<br>capping procedures:          | Sand or clay barriers.  |  |  |  |  |  |
| 6.3.2. | Cleaning up:   | Where possible, the substance can be absorbed by using absorbing<br>material. Place the waste material in tightly closed impermeable contair<br>Store the substance in well ventilated storage rooms until disposal. Sub<br>for disposal to the legal persons authorized by the Ministry of<br>Environmental and Nature Protection. After disposal of the products, we<br>the area and and involved materials with water. |  |  |  |  |  |
| 6.3.3. | Other information:   | Do not use incompatible materials (see Section 10).   |  |  |  |  |  |
| 6.4    | Reference to other sections                                  |   |  |  |  |  |  |
|        | See Section 7 for information on safe handling.              |   |  |  |  |  |  |
|        | See Section 8 for information                                | on personal protective equipment.   |  |  |  |  |  |
|        | See Section 13 for disposal in                               | formation.  |  |  |  |  |  |

| SECTIO | DN 7. Handling and storage                       |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|
| 7.1    | Precautions for safe handling                    |  |  |  |  |  |  |
| 7.1.1. | Protection measures                              |  |  |  |  |  |  |
|        | Measures to prevent fire:                        |  | Use in well ventilated storage rooms.        |  |  |  |  |
|        | Measures to prevent aerosol and dust generation  | n:   | Secure proper ventilation.                   |  |  |  |  |
|        | Measures to protect the environment:             | nment: Prevent spilling into the se<br>and waterways.  |  |  |  |  |  |
|        | Other measures:                                  |  | -  |  |  |  |  |
| 7.1.2. | Advice on general occupational hygiene:          | general occupational hygiene:  |  |  |  |  |  |
|        | Do not eat, drink or smoke in the workspace. Th  | he workspace. Thoroughly wash hands after work and before eating.  |  |  |  |  |  |
| 7.2    | Conditions for safe storage, including any incom | patibilities   |  |  |  |  |  |
|        | Technical measures and storage conditions:       | Keep in tightly closed and upright set containers in well ventilated storage rooms at temperatures rangi from 15 to 25 °C. |  |  |  |  |  |
|        | Packaging materials:                             | Manufactu containers.  | rer's original packaging. Avoid metal        |  |  |  |  |
|        | Requirements for storage rooms and vessels:      | Keep away<br>tightly clos  | from food and drink. Keep the containers ed. |  |  |  |  |



Page 5 of 17

| Trading name: |           | BIOSCHIFF REA        | GENT        |          |   |
|---------------|-----------|----------------------|-------------|----------|---|
| Product code: | BS-OT-X** | Date of compilation: | 17 Jan 2024 | Version: | 5 |

|     | Advices for storage equipment:             | The storage must be made of hard material; floors<br>must be resistant to chemicals. There must be no drain<br>that directly leads into sewage system. Secure proper<br>ventilation.  |
|-----|--|---|
|     | Further information on storage conditions: | Do not place the unused material in the storage room<br>and do not use empty containers for storing other<br>chemicals. Do not store with incompatible materials<br>(see Section 10). |
| 7.3 | Specific end use(s)                        |   |
|     | Recommendations:                           | -   |
|     | Industrial sector specific solutions:      | -   |

| SECTION 8. Exp        | osure contr   | ols/perso   | onal protec | tion           |     |                               |      |                            |
|-----------------------|---------------|-------------|-------------|----------------|-----|-------------------------------|------|----------------------------|
| 8.1 Control           | parameters    |             |             |                |     |                               |      |                            |
| Substar               |               |             |             |                |     | exposure limit<br>term values | Bic  | blogical limit values      |
|                       |               |             |             | ppm            |     | mg/m³                         |      |                            |
| sodium metabis        | ulfite        | 7681-57     | 7-4         | -/-            |     | 5/-                           | No i | nformation available       |
|                       | 1             |             |             |                |     |                               |      |                            |
| Substance name        | : -           | -           |             |                |     |                               |      |                            |
| EC No:                | -             | CAS No      | ): -        |                |     |                               |      |                            |
| DNEL                  |               |             |             |                |     |                               |      |                            |
|                       |               |             |             | Industri       | al  |                               |      |                            |
| Route of<br>exposure: | Act           |             |             | ute<br>ystemic |     | Chronic<br>effect local       |      | Chronic<br>effect systemic |
| Oral                  | -             |             | -           |                | -   |                               |      | -                          |
| Inhalation            | -             |             | -           |                | -   |                               |      | -                          |
| Dermal                |               |             |             |                | -   |                               |      | -                          |
| Critical physical     | parameters:   | solubility, | flammabili  | ty, corrosivit | ty: | -                             |      |                            |
|                       |               |             |             | Consum         | er  | ·                             |      |                            |
| Route of              | Ac            | ute         | Ac          | ute            |     | Chronic                       |      | Chronic                    |
| exposure:             | effect        | t local     | effect s    | ystemic        |     | effect local                  |      | effect systemic            |
| Oral                  | -             |             | -           |                | -   |                               |      | -                          |
| Inhalation            | -             |             | -           |                | -   |                               |      | -                          |
| Dermal                | -             |             | -           |                | -   |                               |      | -                          |
| PNEC                  |               |             |             |                |     |                               |      | ·                          |
| Environmental p       | rotection tar | get         |             | PNE            | С   |                               |      |                            |



Page 6 of 17

| Trading name: |           | BIOSCHIFF REA        | GENT        |          |   |
|---------------|-----------|----------------------|-------------|----------|---|
| Product code: | BS-OT-X** | Date of compilation: | 17 Jan 2024 | Version: | 5 |

|   | Structural measures to prevent exposure:                | Use modern equipment.         |   |  |  |  |  |
|---|---|-------------------------------|---|--|--|--|--|
|   | Substance/mixture related measures to prevent exposure: | See Se                        | ction 6   |  |  |  |  |
| 8.2.3.  | Environmental exposure controls                         |                               |   |  |  |  |  |
| 8.2.2.4.  | Thermal hazards:  | No info                       | No information available  |  |  |  |  |
| 8.2.2.3.  | Respiratory protection:                                 | combii                        | e mask (EN 136) or half mask (EN 140) equipped with a<br>ned "A1 + Form" filter (EN 143) used when concentration<br>exceed GVI.   |  |  |  |  |
|   | Other skin protection:                                  |                               | ntistatic clothing made of natural fibers (such as cotton)<br>ng sleeves (EN 340) and shoes that cover the entire foot.   |  |  |  |  |
|   | Hand protection:  |                               | tive nitrile gloves, 0.11 mm thick (EN 374).  |  |  |  |  |
| 8.2.2.2.  | Skin protection   |                               |   |  |  |  |  |
| 8.2.2.1.  | Eye and face protection:                                | levels o                      | glasses that stick to face (EN 166) or visor in case of lower<br>of concentration in air; protective gas mask that covers the<br>face in case of higher levels of concentration in air. |  |  |  |  |
| 8.2.2.  | Personal protection equipment                           |                               |   |  |  |  |  |
|   | Technical measures to prevent ex                        | xposure:                      | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.                                |  |  |  |  |
|   | Organisational measures to preve<br>exposure:           | ent                           | Organization of work in order to reduce other worker's influence during work process.   |  |  |  |  |
|   | Structural measures to prevent exposure:                | In accordance with Section 7. |   |  |  |  |  |
| Substance/mixture related measures prevent exposure during identified u |   |                               | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.   |  |  |  |  |
| 8.2.1.  | Appropriate engineering controls                        | S                             |   |  |  |  |  |
| 8.2   | Exposure controls                                       |                               |   |  |  |  |  |
|   |   |                               |   |  |  |  |  |
| Air   |   |                               | No information available  |  |  |  |  |
| Soil (agric   | anisms in sewage treatment                              |                               | No information available  |  |  |  |  |
| Food chai   |   |                               | No information available<br>No information available  |  |  |  |  |
| Marine se   |   |                               | No information available  |  |  |  |  |
| Marine wa   |   |                               | No information available  |  |  |  |  |
| Freshwate   | er sediments  |                               | No information available  |  |  |  |  |
| Fresh wat   | er  |                               | No information available  |  |  |  |  |



exposure:

Technical measures to prevent

#### SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 7 of 17

| Product code: BS-OT-X** Date of compilation: 17 Jan 2024 Version  |             |                   | AGENT             | Trading name:        |           |      |           |
|---|-------------|-------------------|-------------------|----------------------|-----------|------|-----------|
| Date of compliation. In Jan 2024 Versit   | on: 5       | Versio            | 17 Jan 2024       | Date of compilation: | BS-OT-X** | ode: | Product c |
| Organisational measures to Adapt the work process to the required working condit prevent exposure: workplace. | ions of the | vorking condition | to the required w |                      |           |      |           |

See Section 6

| ValueMethodPhysical state:liquidNo information availableColour:colourlessNo information availableOdour/odour threshold:sharp/no information<br>availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling<br>point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availableFlish point:No information availableNo information availablePH:<2No information availableSolubility:No information availableNo information availablePartition coefficient n-<br>octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableNo information availableDensity and/or relative densityNo information availableNo information availableNo information availableParticle characteristics:No information availableNo information availableNo information available | Inf | ormation on basic physical and | chemical properties      |                          |  |
|--|-----|--------------------------------|--------------------------|--------------------------|--|
| Colour:colourlessNo information availableOdour/odour threshold:sharp/no information<br>availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling<br>point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2No information availableSolubility:No information availableNo information availablePartition coefficient n-<br>octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableNo information availableRelative vapour density:No information availableNo information availableNo information available   |     |                                | Value                    | Method                   |  |
| Odour/odour threshold:sharp/no information<br>availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling<br>point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2   | Ph  | ysical state:                  | liquid                   | No information available |  |
| Odour/odour threshold:availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling<br>point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2   | Co  | lour:                          | colourless               | No information available |  |
| Boiling point or initial boiling<br>point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2   | Oc  | lour/odour threshold:          | · ·                      | No information available |  |
| point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2   | Me  | elting point / freezing point: | No information available | No information available |  |
| Lover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2  |     | 5.                             | No information available | No information available |  |
| Flash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2  | Fla | immability:                    | No information available | No information available |  |
| Auto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2  | Lo  | ver and upper explosion limit: | No information available | No information available |  |
| Decomposition temperature:No information availableNo information availablepH:<2  | Fla | ish point:                     | No information available | No information available |  |
| pH:<2No information availableKinematic viscosity:No information availableNo information availableSolubility:No information availableNo information availablePartition coefficient n-<br>octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available  | Au  | to-ignition temperature:       | No information available | No information available |  |
| Kinematic viscosity:No information availableNo information availableSolubility:No information availableNo information availablePartition coefficient n-<br>octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available   | De  | composition temperature:       | No information available | No information available |  |
| Solubility:No information availableNo information availablePartition coefficient n-<br>octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available   | p⊦  | :                              | <2                       | No information available |  |
| Partition coefficient n-<br>octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available  | Kir | nematic viscosity:             | No information available | No information available |  |
| octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available  | So  | lubility:                      | No information available | No information available |  |
| Density and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available  | -   |                                | No information available | No information available |  |
| Relative vapour density:     No information available     No information available   | Va  | pour pressure:                 | No information available | No information available |  |
|  | De  | ensity and/or relative density | No information available | No information available |  |
| Particle characteristics: No information available No information available  | Re  | lative vapour density:         | No information available | No information available |  |
|  | Pa  | rticle characteristics:        | No information available | No information available |  |

| SECTIO | SECTION 10. Stability and reactivity |  |  |  |  |  |  |
|--------|--------------------------------------|--|--|--|--|--|--|
| 10.1   | Reactivity:                          | No information available   |  |  |  |  |  |
| 10.2   | Chemical stability:                  | The product is chemically stable under standard ambient conditions of storing and using. |  |  |  |  |  |
| 10.3   | Possibility of hazardous reactions:  | No information available   |  |  |  |  |  |



Page 8 of 17

| Tradir | ng name:                 |                      |                          | <b>BIOSCHIFF RE</b>   | AGENT       |          |   |
|--------|--------------------------|----------------------|--------------------------|-----------------------|-------------|----------|---|
| Produ  | ict code:                | BS-OT-X**            | Dat                      | te of compilation:    | 17 Jan 2024 | Version: | 5 |
| 10.4   | Condition                | a ta avaidu          |                          | No information ava    | ilabla      |          |   |
| 10.4   | 0.4 Conditions to avoid: |                      | No information available |                       |             |          |   |
| 10.5   | Incompat                 | ble materials:       |                          | Strong oxidants (ac   | ds).        |          |   |
| 10.6   | Hazardou                 | s decomposition prod | lucts:                   | Sulfur dioxide, sodiu | um oxide.   |          |   |

| 11.1 Info                   | prmation on t              | toxicological effects   |               |   |                |            |  |
|-----------------------------|----------------------------|-------------------------|---------------|---|----------------|------------|--|
|                             | ite toxicity:              |                         |               |   |                |            |  |
| Route of<br>exposure:       | Methoc                     | l Species               |               | e LD <sub>50</sub> /LC <sub>50</sub><br>or ATE <sub>mix</sub> | Expc           | osure time | Results  |
| Oral:                       | OECD Te<br>Guidelin<br>401 | motaniculinh            | ite)          | -   |                |            | 1.540 mg/kg<br>(sodium<br>metabisulphi<br>5.000 mg/kg<br>(C.I. Basic Red |
| Dermal:                     | OECD Te<br>Guidelin<br>402 |                         |               | rmation<br>lable  | -              |            | >2.000 mg/k<br>(sodium<br>metabisulphi                                   |
| Inhalation:                 | OECD Te<br>Guidelin<br>403 |                         |               | rmation<br>lable  | 4h             |            | >5.5 mg/l<br>(sodium<br>metabisulphi                                     |
| Spe                         | ecific target c            | organ toxicity – single | e exposure (S | STOT SE):   |                |            |  |
| •                           | <u> </u>                   | Specific effects        |               |   | arget organ    |            | Note   |
| Oral:                       | No inform                  | ation available         |               | No information available -                                    |                |            | -  |
| Dermal:                     | No inform                  | ation available         |               | No inform   | -              |            |  |
| Inhalation:                 | No inform                  | ation available         |               | No information available -                                    |                |            |  |
| Asp                         | piration hazaı             | rd:                     | No inform     | mation avail  | able.          |            |  |
| Irrit                       | ation and co               | rrosion                 |               |   |                |            |  |
|                             |                            | Exposure time           | Sp            | ecies   | Evaluati<br>on | Method     | Note   |
| Skin<br>corrosion/irr       | itation:                   | -                       | -             |   | -              | -          | -  |
| Serious eye<br>damage/irrit | ation                      | -                       | -             |   | -              | -          | -  |
|                             |                            |                         |               |   |                |            |  |



Page 9 of 17

| Trading name: | BIOSCHIFF REAGENT |                      |             |          |   |
|---------------|-------------------|----------------------|-------------|----------|---|
| Product code: | BS-OT-X**         | Date of compilation: | 17 Jan 2024 | Version: | 5 |

| Respiratory sensi        | itization:                    | No inf          | ormation avail                 | able                           |                                     |   |             |
|--------------------------|-------------------------------|-----------------|--------------------------------|--------------------------------|-------------------------------------|---|-------------|
| Sympton                  | ms relate                     | ed to the ph    | ysical, chemic                 | al and toxicolog               | ical characterist                   | ics   |             |
| Oral exposure:           |                               | , .             |                                |                                | ipanied by abdo<br>ng and diarrhea. | minal pains and cra                         | mps; highei |
| Dermal exposure          | e: M                          | lay cause sk    | in irritation.                 |                                |                                     |   |             |
| Inhalation exposi        | ure: e>                       | posure and      |                                | y sensitive perso              | -                                   | oncentration, prolon<br>sm may occur, as we | -           |
| Eye exposure:            | Μ                             | lay cause ey    | e irritation.                  |                                |                                     |   |             |
| Repeate                  | ed dose t                     | oxicity (sub    | acute, subchro                 | onic, chronic)                 |                                     |   |             |
| i                        | D                             | lose            | Exposure<br>time               | Species                        | Method                              | Evaluation                                  | Note        |
| Subacute oral            | No in <sup>.</sup><br>availab | formation<br>le | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available      | No information available                    | -           |
| Subacute<br>dermal       | No information available      |                 | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available      | No information available                    | -           |
| Subacute<br>inhalation   | No in <sup>.</sup><br>availab | formation<br>le | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available      | No information available                    | -           |
| Subchronic oral          | No in <sup>.</sup><br>availab | formation<br>le | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available      | No information available                    | -           |
| Subchronic<br>dermal     | No in <sup>.</sup><br>availab | formation<br>le | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available      | No information available                    | -           |
| Subchronic<br>inhalation | No in <sup>.</sup><br>availab | formation<br>le | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available      | No information available                    | -           |
| Chronic oral             | No in <sup>.</sup><br>availab | formation<br>le | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available      | No information available                    | -           |
| Chronic dermal           | No in <sup>.</sup><br>availab | formation<br>le | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available      | No information available                    | -           |
| Chronic<br>inhalation    | No in <sup>.</sup><br>availab | formation<br>le | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available      | No information available                    | -           |



Г

## SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 10 of 17

| Trading name: | BIOSCHIFF REAGENT |                      |             |          |   |
|---------------|-------------------|----------------------|-------------|----------|---|
| Product code: | BS-OT-X**         | Date of compilation: | 17 Jan 2024 | Version: | 5 |

|  |   | Specific effects                 | 5                        | Target organ             | Note |  |
|--|---|----------------------------------|--------------------------|--------------------------|------|--|
| Subacu   | te oral                                     | No information available         |                          | No information available | -    |  |
| Subacu   | te dermal                                   | No information available         |                          | No information available | -    |  |
| Subacu   | te inhalation                               | No information available         |                          | No information available | -    |  |
| Subchro  | onic oral                                   | No information available         |                          | No information available | -    |  |
| Subchr   | onic dermal                                 | No information available         |                          | No information available | -    |  |
| Subchronic inhalation No information available |   |                                  | No information available | -                        |      |  |
| Chronic  | Chronic oral No information available       |                                  |                          | No information available | -    |  |
| Chronic dermal No information available        |   |                                  | No information available | -                        |      |  |
| Chronic  | Chronic inhalation No information available |                                  |                          | No information available | -    |  |
|  | CMR effects (c                              | arcinogenicity; mutagenicity; re | eproductive toxi         | city)                    |      |  |
|  | Carcinogenicit                              |                                  | No informatio            | -                        |      |  |
|  | Mutagenicity <i>i</i>                       | n vitro:                         | No information available |                          |      |  |
|  | Genotoxicity:                               |                                  | No information available |                          |      |  |
|  | Mutagenicity i                              | n vivo:                          | No information available |                          |      |  |
|  | Germ cell mut                               | agenicity:                       | No information available |                          |      |  |
|  | Reproductive 1                              | toxicity:                        | No informatio            | n available              |      |  |
|  | Summary of properties:                      | evaluation of the CMR            | No informatio            | n available              |      |  |
| 11.2   | Information or                              | n other hazards:                 |                          |                          |      |  |
| 11.2.1   | Endocrine disr                              | upting properties:               |                          |                          |      |  |
|  | No known en that affect hur                 | docrine disrupting properties    |                          |                          |      |  |



Page 11 of 17

| Trading name: |           | BIOSCHIFF REA        | GENT        |          |   |
|---------------|-----------|----------------------|-------------|----------|---|
| Product code: | BS-OT-X** | Date of compilation: | 17 Jan 2024 | Version: | 5 |

11.2.2 Other informations: -

| SECTION 12. Ec                        | ologio | cal informat     | ion                                       |   |   |  |      |
|---------------------------------------|--------|------------------|---|---|---|--|------|
| 12.1 Toxicity                         | ,      |                  |   |   |   |  |      |
| Acute (short-ter<br>toxicity          | m)     | Dose             | Exposure<br>time                          | Species   | Method                                  | Evaluation   | Note |
| Fish                                  |        | LC <sub>50</sub> | 96 hours                                  | Golden orfe<br>(sodium<br>metabisulphite)<br>Mosquito fish<br>(hydrochloric acid) | No<br>information<br>available          | 316 mg/l<br>(sodium<br>metabisulphite)<br>282 mg/l<br>(hydrochloric<br>acid) | -    |
| Crustacea:                            |        | EC <sub>50</sub> | 48 hours                                  | Daphnia magna<br>(sodium<br>metabisulphite)                                       | No<br>information<br>available          | 89 mg/l (sodium<br>metabisulphite)   | -    |
| Algae/aquatic plants IC <sub>50</sub> |        | 4 days           | Green algae<br>(sodium<br>metabisulphite) | No<br>information<br>available  | 43.8 mg/l<br>(sodium<br>metabisulphite) | -  |      |
| Other organisms                       | 5      | -                | -   | -   | -                                       | -  | -    |
| Chronic (long-te<br>toxicity          | erm)   | Dose             | Exposure<br>time                          | Species   | Method                                  | Evaluation   | Note |
| Fish                                  |        | LC <sub>50</sub> | 96 hours                                  | No information available  | No<br>information<br>available          | No information available   | -    |
| Crustacea:                            |        | EC <sub>50</sub> | 48 hours                                  | No information available  | No<br>information<br>available          | No information available   | -    |
| Algae/aquatic plants                  |        | IC <sub>50</sub> | 72 hours                                  | No information available  | No<br>information<br>available          | No information available   | -    |
| Other organisms                       | S      | -                | -   | -   | -                                       | -  | -    |
|                                       |        |                  |   |   |   |  |      |
|                                       |        | nd degradab      | oility                                    |   |   |  |      |
| Abiotic                               |        |                  |   |   |   |  |      |
|                                       | De     | gradation ha     | alf-lives                                 | Method  | Evaluatior                              |  | ote  |
| Marine water                          | No in  | formation a      | vailable                                  | No information available  | No information available                | on -   |      |



Page 12 of 17

|                             |                   |                       |                   |                             |  | ŀ         | Page 12 of 17         |   |
|-----------------------------|-------------------|-----------------------|-------------------|-----------------------------|--|-----------|-----------------------|---|
| Trading name                | •                 |                       |                   | <b>BIOSCHIFF</b>            | REAGENT  |           |                       |   |
| Product code:               | BS-OT->           | <b>X</b> **           | Da                | te of compilatior           | n: 17 Jan 2  | 2024      | Version:              | 5 |
| Fresh water                 | No informat       | ion available         | No in<br>availa   | formation                   | No informati<br>available  | on _      |                       |   |
| Air                         | No informat       | ion available         | No in<br>availa   | formation<br>Ible           | No informati<br>available  | on _      |                       |   |
| Soil                        | No informat       | ion available         | No in<br>availa   | formation<br>Ible           | No informati<br>available  | on _      |                       |   |
| Biodec                      | radation          |                       |                   |                             |  |           |                       |   |
| % Degradatic                |                   | me (days)             |                   | Method                      | Evaluatio  | n         | Note                  |   |
| No information<br>available |                   | information           | No ir<br>availa   | formation                   | No informati<br>available  | on No     | information<br>ilable |   |
|                             |                   |                       |                   |                             |  |           |                       |   |
|                             | umulative pot     |                       | (1)(              |                             |  |           |                       |   |
|                             | Concentratio<br>n | ion coefficient<br>pH | °C                | Method                      | Evaluat  | ion       | Note                  |   |
|                             |                   | -                     | -                 | -                           | -  |           | -                     |   |
| Biocon                      | centration fac    | tor (BCF)             |                   |                             |  |           |                       |   |
| Value                       | S                 | pecies                |                   | Method                      | Evaluatio  | n         | Note                  |   |
| No information<br>available | No<br>available   | information           | No in<br>availa   | formation<br>ble            | No informati<br>available  | on _      | -                     |   |
|                             |                   |                       |                   |                             |  |           |                       |   |
| Chroni                      | c ecotoxicity     |                       |                   |                             |  | :         |                       |   |
| Value                       | Do                | SA I                  | osure<br>ime      | Species                     | Method   | Evaluatio | on Note               | 9 |
| Chronic toxicity<br>on fish | LC <sub>50</sub>  | No<br>infor           | rmatio<br>ailable | No information<br>available | No<br>information<br>available<br>No<br>information<br>available |           | -                     |   |



Page 13 of 17

| Trading  | g name:   |               | BIOSCHIFF REAGENT                                      |                                       |                      |  |                                    |                    |                |      |   |
|----------|---|---------------|--|---------------------------------------|----------------------|--|------------------------------------|--------------------|----------------|------|---|
| Produc   | t code:   | BS            | 5-OT-X**   | Date                                  | Date of compilation: |  | 17 Jan 2024                        |                    | Version:       | 5    |   |
| on crust | nronic toxicity<br>n crustacea EC <sub>50</sub><br>Daphnia) |               | Informatio   | informatio No information information |                      | rmation<br>lable                             | No<br>informati<br>on<br>available | ormati -           |                |      |   |
| 12.4     | Mobilit   | v in soi      | 1  |                                       |                      |  |                                    |                    |                |      |   |
|          |   | •             | dicted distributi                                      | on in environm                        | ental d              | compartme                                    | ents:                              |                    |                |      |   |
|          |   | •             | n available  |                                       |                      |  |                                    |                    |                |      |   |
|          | Surface   |               |  |                                       |                      |  |                                    |                    |                |      |   |
|          | Valu  |               | °C   | Concentra                             | ition                |  | Meth                               | od                 |                | Note |   |
|          | No<br>informa<br>availab                                    |               | No<br>information<br>available                         | No informa<br>available               | tion                 | No infori<br>available                       |                                    | 'n                 | -              |      |   |
| Transpo  | •   | A/D o         | lesorption<br>coefficient                              | log Kow                               | E                    | vaporation                                   | rate                               | N                  | lethod         | Note | 9 |
|          | N   |               | 's constant<br>information                             | No information                        |                      | o informat                                   |                                    |                    | ormation       |      |   |
| Soil-wat | er av   | ailable       |  | available                             | av                   | vailable                                     |                                    | availab            | le             | -    |   |
| Water-a  | nir No<br>av  | o<br>railable | information  | No informatio<br>available            |                      | o informat<br>⁄ailable                       | ion                                | No info<br>availab | ormation<br>le | -    |   |
| Soil-air | No<br>av  | o<br>'ailable | information  | No informatio<br>available            |                      | No information No inform available available |                                    |                    | -              |      |   |
|          |   |               |  |                                       |                      |  |                                    |                    |                |      |   |
| 12.5.    |   |               | and vPvB asses   |                                       |                      |  |                                    |                    |                |      |   |
|          | Substar   | nce(s) ii     | n the mixture d  | o(es) not meet                        | the cri              | teria for PE                                 | BT or                              | vPvB               |                |      |   |
| 12.6.    | Endocri   | ine disr      | upting properti  | ies                                   |                      |  |                                    |                    |                |      |   |
|          | accordi   | ng to F       | /mixture does r<br>REACH Article 5<br>J) 2018/605 at l | 7(f) or Commis                        | sion De              | elegated re                                  |                                    |                    |                |      |   |
| 12.7.    | Other a   | dverse        | effects  |                                       |                      |  |                                    |                    |                |      |   |
| 14.1.    | 2   |               |  |                                       |                      |  |                                    |                    |                |      |   |
| 12.7.    | No info   | rmatio        | n available  |                                       |                      |  |                                    |                    |                |      |   |



Page 14 of 17

| Trading name: | BIOSCHIFF REAGENT |                      |             |          |   |
|---------------|-------------------|----------------------|-------------|----------|---|
| Product code: | BS-OT-X**         | Date of compilation: | 17 Jan 2024 | Version: | 5 |

| 13.1                            | Waste treatment methods   |  |  |  |
|---------------------------------|---|--|--|--|
|                                 | i .   |  |  |  |
| 13.1.1.                         | Product/Packaging disposal:   | Product/Packaging disposal:  |  |  |
|                                 | Submit for disposal to the lega<br>Protection.  | al person authorized by the Ministry of Environmental and Nature     |  |  |
|                                 |   |  |  |  |
| 13.1.2.                         | Waste codes/waste designatio  |  |  |  |
|                                 | Packaging that contains residu  | al hazardous substances or is contaminated with hazardous substances |  |  |
| 13.1.3.                         | Waste treatment – relevant inf  | ormation:  |  |  |
|                                 | No information available  |  |  |  |
|                                 | 1   |  |  |  |
| 13.1.4.                         | Sewage disposal – relevant info   | ormation:  |  |  |
|                                 | Waste must not be disposed o  | f into the sewage system.  |  |  |
|                                 |   |  |  |  |
| 13.1.5.                         | Other disposal recommendation   | ons:   |  |  |
|                                 | Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. |  |  |  |
| 13.1.6.                         | Relevant Community provision  | IS:  |  |  |
|                                 | -   |  |  |  |
|                                 |   |  |  |  |
| SECTION                         | 14. Transport information   |  |  |  |
| -                               | Transporting/shipment by road (   | (ADR)  |  |  |
| UN numb                         |   | Not subject to transport regulations                                 |  |  |
| UN prope                        | er shipping name:   | -  |  |  |
| Transport                       | hazard class(es):   | -  |  |  |
| Packing g                       | jroup:  | -  |  |  |
|                                 | entally hazardous:  | -  |  |  |
| Special precautions for user: - |   |  |  |  |
| i                               | Transporting/shipment by rail (R  | T  |  |  |
| UN number:                      |   | Not subject to transport regulations                                 |  |  |
|                                 | er shipping name:   | -  |  |  |
|                                 | hazard class(es):   | -  |  |  |
| Packing g                       | -   | -  |  |  |
| Environm                        | entally hazardous:  | -  |  |  |



Page 15 of 17

| Trading name: |           | BIOSCHIFF REA        | GENT        |          |   |
|---------------|-----------|----------------------|-------------|----------|---|
| Product code: | BS-OT-X** | Date of compilation: | 17 Jan 2024 | Version: | 5 |

| Special precautions for user:   | -                                    |
|---|--------------------------------------|
| Inland waterway transport (ADN)   |                                      |
| UN number:  | Not subject to transport regulations |
| UN proper shipping name:  | -                                    |
| Transport hazard class(es):   | -                                    |
| Packing group:  | -                                    |
| Environmentally hazardous:  | -                                    |
| Special precautions for user:   | -                                    |
| Transporting/shipment by sea (IN  | MDG)                                 |
| UN number:  | Not subject to transport regulations |
| UN proper shipping name:  | -                                    |
| Transport hazard class(es):   | -                                    |
| Packing group:  | -                                    |
| Environmentally hazardous:  | -                                    |
| Special precautions for user:   | -                                    |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: | -                                    |
| Transporting/shipment by air (IC  | AO-TI/IATA-DGR)                      |
| UN number:  | Not subject to transport regulations |
| UN proper shipping name:  | -                                    |
| Transport hazard class(es):   | -                                    |
| Packing group:  | -                                    |
| Environmentally hazardous:  | -                                    |
| Special precautions for user:   | -                                    |
|   |                                      |
| Further information: -  |                                      |

| SECTION 15. Regulatory information |  |                   |  |  |  |  |
|------------------------------------|--|-------------------|--|--|--|--|
| 15.1                               | Safety, health and environmental regulations/legislation specific for the substance or mixture |                   |  |  |  |  |
|                                    | EU regulations   |                   |  |  |  |  |
|                                    | Authorization and/or restrictions of use   |                   |  |  |  |  |
|                                    | Authorizations:  | Authorizations: - |  |  |  |  |
|                                    | Restrictions:  | -                 |  |  |  |  |



Page 16 of 17

| 5 |
|---|
|   |

|      | Other EU regulations:                  | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); |  |
|------|--|---|--|
|      | Information according 1999, guideline) | /13/EC about limitation of emissions of volatile organic compounds (VOC-  |  |
|      | National legislation:                  | Chemicals Act, Regulation on classification, packaging and labeling of<br>dangerous substances, Ordinance on occupational exposure limit values<br>and on biological limit values, Regulation on categories, types and<br>classification of waste with a waste catalog and list of hazardous waste,<br>Ordinance on writing Material safety data sheet, Transport of Hazardous<br>Substances Act  |  |
| 15.2 | Chemical safety assessment             |   |  |
|      | None                                   |   |  |

| SECTIO | SECTION 16. Other information                 |  |  |  |  |
|--------|---|--|--|--|--|
| 16.1   | Indication of changes:                        | -  |  |  |  |
| 16.2   | Abbreviations and acronyms:                   | <ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul> |  |  |  |
| 16.3.  | Key literature references and source of data: | -  |  |  |  |



\_

#### SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 17 of 17

| Trading name: | BIOSCHIFF REAGENT |                      |             |          |   |
|---------------|-------------------|----------------------|-------------|----------|---|
| Product code: | BS-OT-X**         | Date of compilation: | 17 Jan 2024 | Version: | 5 |

| 16.4.    | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) |                         |  |  |   |  |
|----------|---|-------------------------|--|--|---|--|
| Classifi | cation  | )                       | Classification procedure   |  |   |  |
| -        |   |                         | -  |  |   |  |
| 16.5.    | Rele  | evant H statements (num | ber and full text)   |  |   |  |
|          | 302<br>314<br>H: 318  |                         | Harmful if swallowed.  |  |   |  |
|          |   |                         | Causes severe skin burns and eye damage  |  |   |  |
|          |   |                         | Causes serious eye damage.   |  |   |  |
|          |   | 331                     | Toxic if inhaled.  |  |   |  |
|          |   | 350                     | May cause cancer.  |  |   |  |
|          |   | EUH031                  | Contact with acids liberates toxic gas.  |  |   |  |
| 16.6.    | Trai  | ning advice:            | -  |  |   |  |
|          | Further information:  |                         | ** "X" in the product code marks different volumes (different packagings of the product) |  |   |  |
| 16.7.    |   |                         |  |  | We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. |  |

ANNEX: Exposure scenario resulting to chemical safety assessment



Page 1 of 16

| Trading name: | HCL REAGENT, P.A.S. |                      |                  |            |  |
|---------------|---------------------|----------------------|------------------|------------|--|
| Product code: | HCLP-OT-X**         | Date of compilation: | 14 November 2022 | Version: 4 |  |

| 1.1. | Product identifier               |  |   |  |  |
|------|----------------------------------|--|---|--|--|
|      | Trading name:                    | HCL REAG   | GENT, P.A.S.  |  |  |
|      | Chemical name:                   | -  |   |  |  |
|      | Catalogue number:                | HCLP-OT-X**                                      |   |  |  |
| 1.2. | Relevant identified use          | es of the sul                                    | bstance or mi   | ixture and uses advised against              |  |
|      | Uses:                            | Uses:  |   | ith special staining kits in histopathology. |  |
|      | Uses advised against:            |  | Only the  | identified uses are advised.                 |  |
|      | Reason why uses advised against: |  | The product is intended for use only as an <i>in vitro</i> diagnostic<br>medical device, registered at the Agency for Medicinal Products and<br>Medical Devices and there is no reason to use it for other purposes |  |  |
| 1.3. | Details of the supplier          | Details of the supplier of the safety data sheet |   |  |  |
|      | Supplier: Bio                    |  | BioGnost Ltd  | ioGnost Ltd.                                 |  |
|      | Address: M                       |  | Medjugorska   | 159, Zagreb                                  |  |
|      | Telephone number: +3             |  | +385 1 2409   | 385 1 2409997                                |  |
|      | Fax no.: +3                      |  | +385 1 2404039  |  |  |
|      | e-mail of competent p            | e-mail of competent person: <u>m</u>             |   | msds@biognost.hr                             |  |
|      | National contact: -              |  |   |  |  |
| 1.4. | Emergency telephone              | Emergency telephone number                       |   |  |  |
|      | National Protection ar           | d Rescue D                                       | virectorate:  | 112  |  |
|      | Medical information:             |  |   | +385 1 2348 342                              |  |
|      | Other information:               |  |   | -  |  |

| SECTIO   | SECTION 2. Hazards identification          |                 |                     |  |  |
|----------|--|-----------------|---------------------|--|--|
| 2.1.     | Classification of the substance or mixture |                 |                     |  |  |
| 2.1.1.   | Classification according to Regula         | tion (EC) No 12 | 72/2008 (CLP)       |  |  |
|          | Hazard class and category                  | code:           | Hazard statements*: |  |  |
|          | Not identified as hazardous substa         | ance.           | -                   |  |  |
| 2.1.2.   | Additional information                     |                 |                     |  |  |
|          | -  |                 |                     |  |  |
| *For ful | l text of Hazard- and EU Hazard-sta        | tements: see S  | ection 16           |  |  |
| 2.2.     | Label elements                             |                 |                     |  |  |
|          | Product identification:                    | HCL REAGEN      | Γ, P.A.S.           |  |  |
|          | Identification number: -                   |                 |                     |  |  |
|          | Authorization no.: -                       |                 |                     |  |  |
|          | Hazard pictograms:                         | -               |                     |  |  |



Page 2 of 16

| Trading name: | HCL REAGENT, P.A.S. |                      |                  |            |  |  |
|---------------|---------------------|----------------------|------------------|------------|--|--|
| Product code: | HCLP-OT-X**         | Date of compilation: | 14 November 2022 | Version: 4 |  |  |
|               |                     |                      |                  |            |  |  |

|      | Signal word:                              | - |  |
|------|---|---|--|
|      | Hazard statements:                        | - |  |
|      | Precautionary statements:                 | - |  |
|      | Supplemetal hazard information (EU):      | - |  |
| 2.3. | Other hazards                             |   |  |
|      | Endocrine Disrupting Properties:          |   |  |
|      | No known endocrine disrupting properties. |   |  |

| SECTION 3. Co                            | SECTION 3. Composition/information on ingredients |                                |                     |  |  |  |  |
|--|---|--------------------------------|---------------------|--|--|--|--|
| CAS/<br>EC/<br>Index no.                 | REACH<br>Registration No                          | Weight % content<br>(or range) | Identification name | Classification according to<br>Regulation (EC) No<br>1272/2008 (CLP) |  |  |  |
| 7647-01-0/<br>231-595-7/<br>017-002-00-2 | -   | 0.7 - 1 %                      | hydrochloric acid   | Skin Corr. 1B; H314<br>STOT SE 3; H335                               |  |  |  |

| 4.1. | Description of first aid measures                           |      |  |  |  |  |
|------|---|------|--|--|--|--|
|      | General notes:  |      | -  |  |  |  |
|      | Following inhalation:                                       |      | Carry the afflicted person out of the contaminated area into a well-<br>ventilated area or out for fresh air. If breathing becomes erratic or it<br>stops, immediately apply artificial respiration (other than mouth-to-<br>mouth) and contact a physician. |  |  |  |
|      | Following skin contact:                                     |      | Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.  |  |  |  |
|      | Following eye contact:                                      |      | Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.   |  |  |  |
|      | Following ingestion:<br>Self-protection of the first aider: |      | Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.  |  |  |  |
|      |   |      | Treat symptomatically.   |  |  |  |
| 4.2. | Most important symptoms and eff                             |      | ects, both acute and delayed   |  |  |  |
|      | Following inhalation:                                       | No i | information available  |  |  |  |
|      | Following skin contact:                                     | No i | information available  |  |  |  |
|      | Following eye contact: No i                                 |      | information available  |  |  |  |



Page 3 of 16

| Trading name: | HCL REAGENT, P.A.S. |                      |                  |            |  |  |  |  |  |
|---------------|---------------------|----------------------|------------------|------------|--|--|--|--|--|
| Product code: | HCLP-OT-X**         | Date of compilation: | 14 November 2022 | Version: 4 |  |  |  |  |  |
|               |                     |                      |                  |            |  |  |  |  |  |

|      | Following ingestion: No information available                              |
|------|--|
| 4.3. | Indication of any immediate medical attention and special treatment needed |
|      | -  |

| SECTIC | SECTION 5. Firefighting measures                                       |   |  |  |  |  |  |  |
|--------|--|---|--|--|--|--|--|--|
| 5.1.   | Extinguishing media  |   |  |  |  |  |  |  |
|        | Suitable extinguishing media:  | Small fire - water spray, dry powder, CO <sub>2</sub><br>Large fire - water spray or alcohol-resistant foam |  |  |  |  |  |  |
|        | Unsuitable extinguishing media:  | water jet   |  |  |  |  |  |  |
| 5.2.   | Special hazards arising from the substance or mixture                  |   |  |  |  |  |  |  |
|        | Hazardous combustion products: No information available                |   |  |  |  |  |  |  |
| 5.3.   | Advice for firefighters  |   |  |  |  |  |  |  |
|        | Use a self-contained open-circuit of Cool closed containers exposed to | compressed air breathing apparatus and fireproof clothing.<br>fire with water spray or vapor.               |  |  |  |  |  |  |
| 5.4.   | Additional information   |   |  |  |  |  |  |  |
|        | Remove sources of heat and ignition.                                   |   |  |  |  |  |  |  |
|        | Do not contaminate the environm  | ent with extinguishing media.   |  |  |  |  |  |  |

| SECTION 6. Accidental release measures |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| 6.1.                                   | Personal precautions, protective equipment and emergency procedures  |  |  |  |  |  |  |
| 6.1.1.                                 | For non-emergency personne   | 1  |  |  |  |  |  |
|  | Protective equipment:  | Use personal protective equipment (see Section 8). |  |  |  |  |  |
|  | Accident prevention methods:Evacuate members of all non-essential personnel and<br>members without protective equipment. Remove all source<br>sparks and ignition. Do not smoke. |  |  |  |  |  |  |
|  | Emergency procedures:  | Mark the area using proper signs.                  |  |  |  |  |  |
| 6.1.2.                                 | For emergency responders:  |  |  |  |  |  |  |
|  | Wear protective equipment (s   | ee Section 8).                                     |  |  |  |  |  |
| 6.2.                                   | Environmental precautions:   |  |  |  |  |  |  |
|  | Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.                          |  |  |  |  |  |  |
| 6.3.                                   | Methods and material for containment and cleaning up   |  |  |  |  |  |  |
| 6.3.1.                                 | Bunding, covering of drains;<br>capping procedures:  | Sand or clay barriers.                             |  |  |  |  |  |



Page 4 of 16

| Trading name:           |  |     | HCL REAG   | ENT, P.A.S.   |   |
|-------------------------|--|-----|--|---|---|
| Product code: HCLP-OT-X |  |     | Date of compilation:   | 14 November 2022  | Version: 4  |
| 6.3.2. Cleaning up:     |  | ıp: | Where possible, the substant<br>material (sand, diatomaceor<br>in tightly closed impermeab<br>ventilated storage rooms up<br>persons authorized by the P<br>Protection. After disposal of<br>materials with water. | us earth, vermiculite). Plac<br>ble containers. Store the su<br>ntil disposal. Submit for di<br>Ministry of Environmental | te the waste material<br>ubstance in well<br>isposal to the legal<br>and Nature |

| 6.3.3. | Other information: -   |  |  |  |  |  |
|--------|--|--|--|--|--|--|
| 6.4.   | Reference to other sections  |  |  |  |  |  |
|        | See Section 7 for information about secure handling.               |  |  |  |  |  |
|        | See Section 8 for information about personal protective equipment. |  |  |  |  |  |
|        | See Section 13 for information about containment.                  |  |  |  |  |  |

| SECTIO | ON 7. Handling and storage   |  |                  |  |  |  |  |
|--------|--|--|------------------|--|--|--|--|
| 7.1.   | Precautions for safe handling  |  |                  |  |  |  |  |
| 7.1.1. | Protection measures  |  |                  |  |  |  |  |
|        | Measures to prevent fire:  | Keep away from sources of heat and not smoke.  | ignition. Do     |  |  |  |  |
|        | Measures to prevent aerosol and dust generation  | Secure proper ventilation.   |                  |  |  |  |  |
|        | Measures to protect the environment:   | Prevent spilling into the sewage systewaterways.   | em and           |  |  |  |  |
|        | Other measures:  | -  |                  |  |  |  |  |
| 7.1.2. | . Advice on general occupational hygiene:  |  |                  |  |  |  |  |
|        | Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating. |  |                  |  |  |  |  |
| 7.2.   | Conditions for safe storage, including any incompatibilities                                     |  |                  |  |  |  |  |
|        | Technical measures and storage conditions:   | eep in tightly closed and upright set con<br>entilated storage rooms, and away from<br>unlight, and other incompatible substanc  | sources of heat, |  |  |  |  |
|        | Packaging materials:   | Manufacturer's original packaging.   |                  |  |  |  |  |
|        | Requirements for storage rooms and vessels:  | Keep away from food and drink. Keep the containers tightly closed.   |                  |  |  |  |  |
|        | Advices for storage equipment:   | The storage must be made of hard material; floors must<br>be resistant to chemicals. There must be no drain that<br>directly leads into sewage system. Secure proper<br>ventilation. |                  |  |  |  |  |
|        | Further information on storage conditions:   | Do not place the unused material in the st<br>nd do not use empty containers for stori<br>hemicals. Do not store with incompatible<br>ection 9).                                     | ng other         |  |  |  |  |
| 7.3.   | Specific end use(s)  |  |                  |  |  |  |  |



Page 5 of 16

| Trading name: |             | HCL REAG             | REAGENT, P.A.S.  |            |  |
|---------------|-------------|----------------------|------------------|------------|--|
| Product code: | HCLP-OT-X** | Date of compilation: | 14 November 2022 | Version: 4 |  |
|               |             |                      |                  |            |  |

| Recommendations:                      | - |
|---------------------------------------|---|
| Industrial sector specific solutions: | - |

| SECTIO               | ON 8. Expos    | ure contr  | ols/personal     | protec             | tion   |                          |                       |                          |     |
|----------------------|----------------|------------|------------------|--------------------|--|--------------------------|-----------------------|--------------------------|-----|
| 8.1.                 | Control pa     | rameters   |                  |                    |  |                          |                       |                          |     |
| Substance            |                |            |                  |                    | cupational exposure limit<br>alues/short term values |                          | Biological limit valu | Biological limit values  |     |
|                      |                |            |                  |                    | þ  | opm                      | mg/m <sup>3</sup>     |                          |     |
| -                    |                |            | -                |                    |  | -                        | -                     | No information available |     |
|                      |                |            |                  |                    |  |                          |                       |                          |     |
| Substa<br>name:      | ince -         |            |                  |                    |  |                          |                       |                          |     |
| EC No:               | -              |            | CAS No:          | -                  |  |                          |                       |                          |     |
| DNEL                 |                |            |                  |                    |  |                          |                       |                          |     |
|                      |                |            |                  |                    | Ind  | ustrial                  |                       |                          |     |
| Route                | of exposure:   |            | Acute            |                    | Acute  | 9                        | Chron                 | nic Chronic              |     |
| Noute                | or exposure.   | effe       | ect local        | effe               | ect syst   | temic                    | effect lo             | ocal effect syste        | mic |
| Oral                 |                | -          | -                | -                  |  |                          | -                     | -                        |     |
| Inhalat              | ion            | -          | -                | -                  |  |                          | -                     | -                        |     |
| Derma                | I              | -          | -                | -                  |  |                          | -                     | -                        |     |
| Critica              | l physical par | ameters: s | solubility, flam | mabilit            | ty, corı   | rosivity:                | -                     |                          |     |
|                      |                |            |                  |                    | Cor  | nsumer                   | 1                     | Γ                        |     |
| Route                | of exposure:   |            |                  |                    | Acute  |                          | Chron                 |                          |     |
|                      |                | effe       | ect local        | ct local effect sy |  | temic                    | effect lo             | ocal effect syste        | mic |
| Oral                 |                | -          |                  | -                  |  |                          | -                     | -                        |     |
| Inhalat              |                | -          |                  | -                  |  |                          | -                     | -                        |     |
| Derma                |                | -          |                  | -                  |  |                          | -                     | -                        |     |
| PNEC                 |                |            |                  |                    |  |                          |                       |                          |     |
|                      | nmental prot   | ection tar | get              |                    |  | PNEC                     |                       |                          |     |
| Fresh v              |                |            |                  |                    |  |                          | mation availabl       |                          |     |
| Freshwater sediments |                |            |                  |                    |  | No information available |                       |                          |     |
| Marine water         |                |            |                  |                    |  | No information available |                       |                          |     |
|                      | e sediments    |            |                  |                    |  |                          | mation availabl       |                          |     |
| Food o               |                |            |                  |                    |  | No information available |                       |                          |     |
|                      | organisms in   | sewage tr  | eatment          |                    |  | No information available |                       |                          |     |
| Soil (ag             | gricultural)   |            |                  |                    |  | No infor                 | mation availabl       | le                       |     |



Page 6 of 16

| Trading name: |             | HCL REAG             | ENT, P.A.S.      |            |
|---------------|-------------|----------------------|------------------|------------|
| Product code: | HCLP-OT-X** | Date of compilation: | 14 November 2022 | Version: 4 |

| Air      |  |  | No information available  |  |  |  |  |
|----------|--|--|---|--|--|--|--|
|          |  |  |   |  |  |  |  |
| 8.2.     | Exposure controls  |  |   |  |  |  |  |
| 8.2.1.   | Appropriate engineering controls   |  |   |  |  |  |  |
|          | Substance/mixture relate<br>measures to prevent exp<br>during identified uses: |  | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.   |  |  |  |  |
|          | Structural measures to prevent exposure:                                       | revent   | No information available  |  |  |  |  |
|          | Organisational measures prevent exposure:                                      | to   | Organization of work in order to reduce other worker's influence during work process.   |  |  |  |  |
|          | Technical measures to pr<br>exposure:  | event  | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.  |  |  |  |  |
| 8.2.2.   | Personal protection equi   | pment  |   |  |  |  |  |
| 8.2.2.1. | Eye and face protection:   | n: Safety glasses that stick to face (preventing splashing) (EN visor. |   |  |  |  |  |
| 8.2.2.2. | Skin protection  |  |   |  |  |  |  |
|          |  |  | rotective gloves must be according to the EU Directive 2016/425/EEC and<br>tandard EN 374.<br>Glove material: nitrile rubber<br>Glove thickness: ≥0.50 mm<br>Break through time: >480 min |  |  |  |  |
|          | Other skin protection:   |  | ear antistatic clothing made of natural fibers (such as cotton) with long eves (EN 13034), and shoes that cover the entire foot (EN 10335).   |  |  |  |  |
| 8.2.2.3. | Respiratory protection:  | filter f   | ctive full face mask (EN 136) or half mask (EN 140) equipped with a<br>for organic vapors, type "A" (boiling point >65°C) acording to EN<br>7) used when concentration levels exceed GVI. |  |  |  |  |
| 8.2.2.4. | Thermal hazards:   | No inf   | formation available   |  |  |  |  |
| 8.2.3.   | Environmental exposure controls  |  |   |  |  |  |  |
|          | Substance/mixture relate<br>measures to prevent exp                            |  | See Section 6   |  |  |  |  |
|          | Structural measures to preserve exposure:                                      | revent   | Use modern equipment.   |  |  |  |  |
|          | Organisational measures prevent exposure:                                      | to   | Adapt the work process to the required working conditions of the workplace.   |  |  |  |  |
|          | Technical measures to pr<br>exposure:  | event  | See Section 6   |  |  |  |  |



Page 7 of 16

| Trading name: | HCL REAGENT, P.A.S. |                      |                  |  |
|---------------|---------------------|----------------------|------------------|--|
| Product code: | HCLP-OT-X**         | Date of compilation: | 14 November 2022 |  |

Version: 4

|      |   | Value                    | Method                   |  |
|------|---|--------------------------|--------------------------|--|
|      | Physical state:   | liquid                   | No information available |  |
|      | Color:  | colourless               | No information available |  |
|      | Odour/odour threshold:                                    | no information available | No information available |  |
|      | Melting point / freezing point:                           | No information available | No information available |  |
|      | Boiling point or initial boiling point and boiling range: | No information available | No information available |  |
|      | Flammability:   | No information available | No information available |  |
|      | Lover and upper explosion limit:                          | No information available | No information available |  |
|      | Flash point:  | No information available | No information available |  |
|      | Auto-ignition temperature:                                | No information available | No information available |  |
|      | Decomposition temperature:                                | No information available | No information available |  |
|      | pH:   | No information available | No information available |  |
|      | Kinematic viscosity:                                      | No information available | No information available |  |
|      | Solubility:   | No information available | No information available |  |
|      | Partition coefficient n-octanol/water (log value):        | No information available | No information available |  |
|      | Vapour pressure:  | No information available | No information available |  |
|      | Density and/or relative density                           | No information available | No information available |  |
|      | Relative vapour density:                                  | No information available | No information available |  |
|      | Particle characteristics:                                 | No information available | No information available |  |
| 9.2. | Other information   |                          |                          |  |

| SECTIC | SECTION 10.: Stability and reactivity |  |  |  |  |
|--------|---------------------------------------|--|--|--|--|
| 10.1.  | Reactivity:                           | See subsections 10.3 through 10.5.   |  |  |  |
| 10.2.  | Chemical stability:                   | The product is chemically stable under standard ambient conditions of storing and using. |  |  |  |
| 10.3.  | Possibility of hazardous reactions:   | No information available.  |  |  |  |
| 10.4.  | Conditions to avoid:                  | No information available.  |  |  |  |
| 10.5.  | Incompatible materials:               | No information available.  |  |  |  |
| 10.6.  | Hazardous decomposition products:     | No information available.  |  |  |  |

| SECTIO | ON 11. Toxicological information   |
|--------|--|
| 11.1.  | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |



Page 8 of 16

| Trading name: |             | HCL REAGENT, P.A.S.  |                  |            |  |  |  |  |
|---------------|-------------|----------------------|------------------|------------|--|--|--|--|
| Product code: | HCLP-OT-X** | Date of compilation: | 14 November 2022 | Version: 4 |  |  |  |  |

| Acute toxic                                   | city:                       |                   |   |                            |            |  |  |
|---|-----------------------------|-------------------|---|----------------------------|------------|--|--|
| Route of<br>exposure:                         | Method                      | Species           | Effective Dose<br>LD <sub>50</sub> /LC <sub>50</sub> or<br>ATE <sub>mixture</sub> | Exposure ti                | me Results |  |  |
| Oral exposure:                                | No information<br>available | -                 | LD <sub>50</sub>  | -                          | -          |  |  |
| Dermal exposure:                              | No information<br>available | -                 | LD <sub>50</sub>  | -                          | -          |  |  |
| Inhalation<br>exposure:                       | -  (.50 -                   |                   | -   | -                          |            |  |  |
| Specific tar                                  | get organ toxicity – si     | nale exposure (S  |   |                            |            |  |  |
| Specific tal                                  |                             | ic effects        | Target  | organ                      | Note       |  |  |
| Oral exposure:                                | No information              |                   | No informatio   |                            | -          |  |  |
| Dermal exposure:                              | No information              |                   | No informatio   |                            | -          |  |  |
| Inhalation exposure                           |                             |                   |   | No information available - |            |  |  |
|   |                             |                   |   |                            |            |  |  |
| Aspiration                                    | hazard:                     | No infor          | mation available  |                            |            |  |  |
|   |                             |                   |   |                            |            |  |  |
| Irritation a                                  | nd corrosion:               |                   |   |                            |            |  |  |
| :   | Exposure time               | Species           | Evaluation  | Method                     | Note       |  |  |
| Skin irritation:                              | -                           | -                 | -   |                            |            |  |  |
| Eye irritation:                               | -                           | -                 | -   |                            |            |  |  |
|   | 1                           | :                 |   | 1                          |            |  |  |
| Sensitizatio                                  | on                          |                   |   |                            |            |  |  |
| Dermal exposure:                              | No information avail        | able              |   |                            |            |  |  |
| Inhalation<br>exposure:                       | No information avail        | able              |   |                            |            |  |  |
|   |                             |                   |   |                            |            |  |  |
| Symptoms                                      | related to the physica      |                   | toxicological chara   | cteristics                 |            |  |  |
| Oral exposure: No information available       |                             |                   |   |                            |            |  |  |
| Dermal exposure: No information available     |                             |                   |   |                            |            |  |  |
| Inhalation exposure: No information available |                             |                   |   |                            |            |  |  |
| Eye exposure:                                 | No information av           | /ailable          |   |                            |            |  |  |
|   |                             |                   |   |                            |            |  |  |
| Repeated of                                   | dose toxicity (subacute     | e, subchronic, ch | ronic)  |                            |            |  |  |



Page 9 of 16

| Trading name: |             |
|---------------|-------------|
| Product code: | HCLP-OT-X** |

HCL REAGENT, P.A.S.
Date of compilation: 14 November 2022

Version: 4

|                        |                                      | Dose              | Exposure<br>time  | Species  |                          | Method                         | Evaluatior                    | n No | ote  |
|------------------------|--------------------------------------|-------------------|---|--|--------------------------|--------------------------------|-------------------------------|------|------|
| Subacute oral          | No i<br>availa                       | nformation<br>ble | No<br>information<br>available                          | No<br>informat<br>available                          | -                        | No<br>information<br>available | No<br>informatio<br>available | on - |      |
| Subacute<br>dermal     | No i<br>availa                       | nformation<br>ble | No No<br>information information<br>available available |  |                          | No<br>information<br>available | No<br>informatio<br>available | on - |      |
| Subacute<br>inhalation | No i<br>availa                       | nformation<br>ble | No<br>information<br>available                          |  |                          | No<br>information<br>available | No<br>informatio<br>available | on - |      |
| Subchronic oral        | No i<br>availa                       | nformation<br>ble | No<br>information<br>available                          | No<br>informati<br>available                         | -                        | No<br>information<br>available | No<br>informatio<br>available | on - |      |
| Subchronic<br>dermal   | No i<br>availa                       | nformation<br>ble | No<br>information<br>available                          | No<br>informati<br>available                         |                          | No<br>information<br>available | No<br>informatio<br>available | on - |      |
| Subchronic inhalation  |                                      |                   | No<br>information<br>available                          | No<br>informati<br>available                         | -                        | No<br>information<br>available | No<br>informatio<br>available | on - |      |
| Chronic oral           | hronic oral No information available |                   | No<br>information<br>available                          | No<br>informati<br>available                         |                          | No<br>information<br>available | No<br>informatio<br>available | on - |      |
| Chronic dermal         | No i<br>availa                       | nformation<br>ble | No<br>information<br>available                          | No<br>informati<br>available                         |                          | No<br>information<br>available | No<br>informatio<br>available | on - |      |
| Chronic<br>inhalation  | No i<br>availa                       | nformation<br>ble | No<br>information<br>available                          | No<br>informati<br>available                         |                          | No<br>information<br>available | No<br>informatio<br>available | on - |      |
|                        |                                      |                   |   |  |                          |                                |                               |      |      |
| Specific               | target                               | -                 | y – repeated e  | xposure (S   | TOT R                    |                                |                               |      |      |
| Culturat               |                                      |                   | pecific effects   |  | NI *                     | Target orga                    |                               |      | Note |
| Subacute oral          |                                      |                   | tion available  |  | No information available |                                | -                             |      |      |
|                        |                                      | tion available    |   | No information available                             |                          |                                | -                             |      |      |
|                        |                                      | ition available   |   | No information available<br>No information available |                          |                                | _                             |      |      |
|                        |                                      | ition available   |   | No information available                             |                          |                                | _                             |      |      |
| Subchronic inhal       |                                      |                   | ition available   |  | No information available |                                | -                             |      |      |
| Chronic oral           |                                      |                   | ition available   |  |                          | nformation avai                |                               | _    |      |
| Chronic dermal         |                                      | No informa        | tion available  |  | No ir                    | nformation avai                | lable                         | _    |      |



Page 10 of 16

| Trading name: |             | HCL REAGENT, P.A.S.  |                  |            |  |  |  |  |
|---------------|-------------|----------------------|------------------|------------|--|--|--|--|
| Product code: | HCLP-OT-X** | Date of compilation: | 14 November 2022 | Version: 4 |  |  |  |  |

| Chronic | : inhalation   | No informa      | tion available   | No information available                | -            |  |  |
|---------|--|-----------------|--|---|--------------|--|--|
|         |  |                 |  |   |              |  |  |
|         | CMR effects (c   | arcinogenicity  | ; mutagenicity; repro  | oductive toxicity)                      |              |  |  |
|         | Carcinogenicit   | y:              | Based on availab   | ole data, the classification criteria a | are not met. |  |  |
|         | Mutagenicity i   | n-vitro:        | Based on availab   | ole data, the classification criteria a | are not met. |  |  |
|         | Genotoxicity:  |                 | Based on availab   | ole data, the classification criteria a | are not met. |  |  |
|         | Mutagenicity i   | n-vivo:         | Based on available data, the classification criteria are not met.<br>Based on available data, the classification criteria are not met. |   |              |  |  |
|         | Germ cell mut  | agenicity:      |  |   |              |  |  |
|         | Reproductive 1   | oxicity:        | Based on availab   | ole data, the classification criteria a | are not met. |  |  |
|         |  |                 |  |   |              |  |  |
|         | Summary of ev  | valuation of th | ne CMR properties:   | -                                       |              |  |  |
|         |  |                 |  |   |              |  |  |
| 11.2.   | Information or   | n other hazard  | ls:  |   |              |  |  |
| 11.2.1. | Endocrine disr   | upting proper   | ties:  |   |              |  |  |
|         | No known endocrine disrupting properties that affect human health. |                 |  |   |              |  |  |
| 11.2.2. | Other informa  | tions:          |  |   |              |  |  |
|         | -  |                 |  |   |              |  |  |

| SECTION 12. Ecological information |                  |                  |                             |                             |                                |      |  |  |  |
|------------------------------------|------------------|------------------|-----------------------------|-----------------------------|--------------------------------|------|--|--|--|
| 12.1. Toxicity                     |                  |                  |                             |                             |                                |      |  |  |  |
| Acute toxicity                     | Dose             | Exposure<br>time | Species                     | Method                      | Evaluation                     | Note |  |  |  |
| Fish                               | LC <sub>50</sub> | 96 hours         | No information<br>available | No information<br>available | -                              | -    |  |  |  |
| Crustacea:                         | EC <sub>50</sub> | 48 hours         | No information<br>available | No information<br>available | -                              | -    |  |  |  |
| Algae/aquatic plants               | IC <sub>50</sub> | 8 days           | No information<br>available | No information<br>available | -                              | -    |  |  |  |
| Microorganisms                     | LC <sub>50</sub> | 72 hours         | -                           | -                           | -                              | -    |  |  |  |
| Chronic (long-term)<br>toxicity    | Dose             | Exposure<br>time | Species                     | Method                      | Evaluation                     | Note |  |  |  |
| Fish                               | LC <sub>50</sub> | 96 hours         | No information<br>available | No information available    | No<br>information<br>available | -    |  |  |  |
| Crustacea:                         | EC <sub>50</sub> | 48 hours         | No information available    | No information<br>available | No<br>information<br>available | -    |  |  |  |



Page 11 of 16

| Trading name: HCL REAGENT, P.A.S.                 |                   |                  |                          |                          |                               |                         |                           |          |                        |       |
|---|-------------------|------------------|--------------------------|--------------------------|-------------------------------|-------------------------|---------------------------|----------|------------------------|-------|
| Product code: HCLP-OT-X** Da                      |                   | Date             | Date of compilation: 14  |                          | 14 November 2022              |                         | Versi                     | on: 4    |                        |       |
| Algae/aquatic                                     | plants            | IC <sub>50</sub> | 72 hou                   | rc                       | No information<br>available   | vailable available into |                           |          | rmation -<br>lable     |       |
| Other organis                                     | ms                | -                | -                        |                          | _                             | -                       |                           | -        | -                      |       |
|   |                   |                  |                          |                          |                               |                         |                           |          |                        |       |
| 12.2. Persis                                      | stence a          | and degradab     | oility                   |                          |                               |                         |                           |          |                        |       |
| Abiot   | ic degr           | adation          |                          | 1                        |                               |                         | 1                         |          |                        |       |
|   | Deg               | gradation hal    | f-lives                  |                          | Method                        |                         | Ev                        | aluation | 1                      | Note  |
| Marine<br>water                                   | No in             | formation av     | ailable                  | No i                     | nformation availa             | able                    | No informat               | ion avai | lable                  | -     |
| Fresh water                                       | No in             | formation ava    | ailable                  | No i                     | nformation availa             | able                    | No informat               | ion avai | lable                  | -     |
| Air   | No in             | formation ava    | ailable                  | No i                     | nformation availa             | able                    | No informat               | ion avai | lable                  | -     |
| Soil  | No in             | formation ava    | ailable                  | No i                     | nformation availa             | able                    | No informat               | ion avai | lable                  | -     |
|   |                   |                  |                          |                          |                               |                         |                           |          |                        |       |
| i.  | egradat           |                  | <u> </u>                 |                          |                               |                         | E se la settie se         |          |                        | - 4 - |
| % Degradatio<br>No informatio                     |                   | Time (days       |                          | Method<br>No information |                               |                         | Evaluation No information |          | Note<br>No information |       |
| available   |                   | ailable          |                          |                          |                               |                         |                           |          | vailable               | uon   |
|   |                   |                  |                          |                          |                               |                         |                           |          |                        |       |
|   |                   |                  |                          |                          |                               |                         |                           |          |                        |       |
|   |                   |                  |                          |                          |                               |                         |                           |          |                        |       |
| 12.3. Bioac                                       | cumula            | itive potentia   |                          |                          |                               |                         |                           |          |                        |       |
| Octar   | nol-wat           | er partition c   | oefficien                | t (log l                 | Kow)                          |                         | Ť                         |          | 1                      |       |
| Value   | Conce             | entration        | рН                       | °C                       | °C Method                     |                         | Evaluation                |          |                        | Note  |
| _   | No iı<br>availabl | nformation<br>le | -                        | -                        | - No information<br>available |                         | No informat<br>available  | ion      | -                      |       |
|   |                   |                  |                          |                          |                               |                         |                           |          |                        |       |
|   |                   |                  |                          |                          |                               |                         |                           |          |                        |       |
| 1   | ncentra           | ation factor (E  | BCF)                     |                          |                               | 1                       |                           |          |                        |       |
| Value   | •                 |                  |                          | Method                   |                               | Evaluation              |                           |          | lote                   |       |
| No information No information available available |                   |                  | No information available |                          | No information available      |                         | No information available  |          |                        |       |
|   |                   |                  |                          |                          |                               |                         |                           |          |                        |       |
|   |                   |                  |                          |                          |                               |                         |                           |          |                        |       |
| Chror   | nic ecot          | toxicity         |                          |                          |                               |                         |                           |          |                        |       |



Page 12 of 16

|                                |                                   |   |   |                          |  |                           |                            | Page        | 12 of 16 |
|--------------------------------|-----------------------------------|---|---|--------------------------|--|---------------------------|----------------------------|-------------|----------|
| Trading nam                    | ne:                               |   |   | HCL I                    | REAGEN   | T, P.A.S.                 |                            |             |          |
| Product code: HCLP-OT-X**      |                                   | CLP-OT-X**                                | Date of comp                                  |                          | tion: 14                                       | 4 Novembe                 | r 2022                     | Ver         | sion: 4  |
| Val                            | ue                                | Dose                                      | Exposure Spe                                  |                          | ies  | Method                    |                            | ation       | Note     |
| Chronic toxic                  | ity on fish                       | n LC <sub>50</sub>                        | No No<br>information infor<br>available avail |                          |  | o<br>formation<br>ailable |                            |             | -        |
| Chronic toxic<br>crustacea (Da |                                   | EC <sub>50</sub>                          | information                                   | No<br>informa<br>availab | ation inf                                      | No N                      |                            | ation<br>le | -        |
| 10.4                           | •1•. •                            |   |   |                          |  |                           |                            |             |          |
|                                | oility in so                      |   | on in onvironme                               | ontal co                 | maartmar                                       |                           |                            |             |          |
|                                | •                                 | on available                              | on in environme                               | ental CO                 | mpartmer                                       | 115.                      |                            |             |          |
| -                              | ace tensic                        |   |   |                          |  |                           |                            |             |          |
|                                | /alue                             | °C  | Concentrat                                    | ion                      | M  | lethod                    |                            | N           | lote     |
| No<br>infor                    |                                   |   | No information No                             |                          |  | information -<br>ilable   |                            |             |          |
| Adso<br>Transport              | A/D                               | desorption<br>coefficient<br>y's constant | log Kow                                       | Eva                      | poration r                                     | rate N                    | 1ethod                     |             | Note     |
| Soil-water                     |                                   | information                               | No information<br>available                   |                          | No information Navailable a                    |                           | No information - available |             |          |
| Water-air                      | No<br>available                   | information                               | No information<br>available                   |                          | No information<br>available                    |                           | No information available   |             |          |
| Soil-air                       | Soil-air No information available |   | No information No                             |                          | No information No infor<br>available available |                           | ormation<br>ole            | -           |          |
| 12.5. Resu                     | ults of PBT                       | ۲ and vPvB asses                          | ssment  |                          |  |                           |                            |             |          |
|                                |                                   | on available                              |   |                          |  |                           |                            |             |          |
|                                |                                   |   |   |                          |  |                           |                            |             |          |
| 12.6. Endo                     | ocrine dis                        | rupting properti                          | ies   |                          |  |                           |                            |             |          |
|                                |                                   |   | ng properties th                              | nat affec                | t the envi                                     | ronment.                  |                            |             |          |
|                                |                                   |   |   |                          |  |                           |                            |             |          |
| 12.7. Oth                      | er advers                         | e effects                                 |   |                          |  |                           |                            |             |          |
| N                              |                                   | ffacts are evenes                         |   |                          |  |                           |                            |             |          |

No adverse effects are expected.



Γ

## SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 13 of 16

| Trading name: | HCL REAGENT, P.A.S. |                      |                  |            |  |  |
|---------------|---------------------|----------------------|------------------|------------|--|--|
| Product code: | HCLP-OT-X**         | Date of compilation: | 14 November 2022 | Version: 4 |  |  |

| SECTIO                     | N 13. Disposal consideration  | ons   |  |  |
|----------------------------|---|---|--|--|
| 13.1.                      | Waste treatment method  | S   |  |  |
|                            |   |   |  |  |
| 13.1.1.                    | Product/Packaging dispo   | sal:  |  |  |
|                            | -   | e legal person authorized by the Ministry of Environmental and Nature |  |  |
|                            | Protection.   |   |  |  |
| 10.1.0                     | · · · · · · ·   |   |  |  |
| 13.1.2.                    | No information available  | nations according to Law:   |  |  |
|                            | No information available  |   |  |  |
| 13.1.3.                    | Waste treatment – releva  | nt information:   |  |  |
|                            | No information available  |   |  |  |
|                            |   |   |  |  |
| 13.1.4.                    | Sewage disposal – releva  | nt information:   |  |  |
|                            | Waste must not be dispo   | sed of into the sewage system.  |  |  |
|                            |   |   |  |  |
| 13.1.5.                    | Other disposal recommer   | ndations:   |  |  |
|                            | Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. |   |  |  |
| 13.1.6.                    | Relevant Community prov   | visions:  |  |  |
|                            | -   |   |  |  |
|                            |   |   |  |  |
| SECTIO                     | N 14. Transport informatic  | on  |  |  |
|                            | Transporting/shipment by i  | road (ADR)  |  |  |
| UN num                     | ber:  | Not subject to transport regulations.                                 |  |  |
| UN prop                    | per shipping name:  | -   |  |  |
| Transpo                    | rt hazard class(es):  | -   |  |  |
| Packing group:             |   | -   |  |  |
| Environmentally hazardous: |   | -   |  |  |
| Special p                  | precautions for user:   | -   |  |  |
| ,                          | Transporting/shipment by  | rail (RID)  |  |  |
| UN num                     | ber:  | Not subject to transport regulations.                                 |  |  |
| UN prop                    | per shipping name:  | -   |  |  |



Page 14 of 16

| Trading name:              |                        | HCL REAGENT, P.A.S.                              |  |  |  |  |  |
|----------------------------|------------------------|--|--|--|--|--|--|
| Product code:              | HCLP-OT-X**            | Date of compilation: 14 November 2022 Version: 4 |  |  |  |  |  |
|                            |                        |  |  |  |  |  |  |
| Transport hazard cl        | ass(es):               | -  |  |  |  |  |  |
| Packing group:             |                        | -  |  |  |  |  |  |
| Environmentally ha         | zardous:               | -  |  |  |  |  |  |
| Special precautions        | for user:              | -  |  |  |  |  |  |
| Inland wat                 | erway transport (ADN   | )  |  |  |  |  |  |
| UN number:                 |                        | Not subject to transport regulations.            |  |  |  |  |  |
| UN proper shipping         | g name:                | -  |  |  |  |  |  |
| Transport hazard cl        | ass(es):               | -  |  |  |  |  |  |
| Packing group:             |                        | -  |  |  |  |  |  |
| Environmentally ha         | zardous:               | -  |  |  |  |  |  |
| Special precautions        | for user:              | -  |  |  |  |  |  |
| Transporti                 | ng/shipment by sea (Il | MDG)   |  |  |  |  |  |
| UN number:                 |                        | Not subject to transport regulations.            |  |  |  |  |  |
| UN proper shipping         | g name:                | -  |  |  |  |  |  |
| Transport hazard cl        | ass(es):               | -  |  |  |  |  |  |
| Packing group:             |                        | -  |  |  |  |  |  |
| Environmentally ha         | zardous:               | -  |  |  |  |  |  |
| Special precautions        | for user:              | -  |  |  |  |  |  |
| Transporti                 | ng/shipment by air (IC | AO-TI/IATA-DGR)                                  |  |  |  |  |  |
| UN number:                 |                        | Not subject to transport regulations.            |  |  |  |  |  |
| UN proper shipping         | g name:                | -  |  |  |  |  |  |
| Transport hazard cl        | ass(es):               | -  |  |  |  |  |  |
| Packing group:             |                        | -  |  |  |  |  |  |
| Environmentally hazardous: |                        | -  |  |  |  |  |  |
| Special precautions        | for user:              | -  |  |  |  |  |  |
|                            |                        |  |  |  |  |  |  |
| Further information        | : The product is       | not subject to classification.                   |  |  |  |  |  |

| SECTIC | SECTION 15. Regulatory information   |   |  |  |  |  |
|--------|--|---|--|--|--|--|
| 15.1.  | Safety, health and environmental regulations/legislation specific for the substance or mixture |   |  |  |  |  |
|        | EU regulations   |   |  |  |  |  |
|        | Authorization and/or restrictions of use   |   |  |  |  |  |
|        | Authorizations:  | - |  |  |  |  |
|        | Restrictions:  | - |  |  |  |  |



Page 15 of 16

| Trading name:         |                     | HCL REAGENT, P.A.S. |  |  |               |  |  |  |
|-----------------------|---------------------|---------------------|--|--|---------------|--|--|--|
| Product co            | ode:                | HCLP-OT-X**         | Date of compilation: 14 November 2022 Version: 4   |  |               |  |  |  |
| Oth                   | her EU r            | egulations:         | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain |  |               |  |  |  |
|                       | ormatio<br>ideline) | n according 1999,   | (13/EC about limitation of emissions of volatile organic   | compounds (\                                     | /OC-          |  |  |  |
| National legislation: |                     | egislation:         | Chemicals Act, Regulation on classification, packaging<br>dangerous substances, Ordinance on occupational exp<br>and on biological limit values, Regulation on categorie<br>classification of waste with a waste catalog and list of<br>Ordinance on writing Material safety data sheet, Trans<br>Substances Act   | posure limit va<br>es, types and<br>hazardous wa | alues<br>ste, |  |  |  |
| 15.2. Che             | emical s            | safety assessment   |  |  |               |  |  |  |
| No                    | one                 |                     |  |  |               |  |  |  |

| SECTIO   | SECTION 16. Other information                 |  |   |  |  |
|--|---|--|---|--|--|
| 16.1.  | Indication of changes:                        | -  |   |  |  |
| 16.2.  | Abbreviations and acronyms:                   | PBT<br>vPvB<br>LD <sub>50</sub><br>LC <sub>50</sub><br>STOT-SE | Stable, bioaccumulative and toxic<br>Strongly stable and strongly bioaccumulative.<br>Lethal dose, 50%<br>Lethal concentration, 50%<br>Specific target organ toxicity - single exposure |  |  |
| 16.3.  | Key literature references and source of data: | -  |   |  |  |
| 16.4. Classification and procedure u 1272/2008 (CLP) |   | sed to derive the  | classification for mixture according to Regulation (EC)   |  |  |
| Classific  | cation C                                      | Classification procedure                                       |   |  |  |
| -  |   |  |   |  |  |



\_

## SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 16 of 16

| Trading name: | HCL REAGENT, P.A.S. |                      |                  |            |  |  |
|---------------|---------------------|----------------------|------------------|------------|--|--|
| Product code: | HCLP-OT-X**         | Date of compilation: | 14 November 2022 | Version: 4 |  |  |

| 16.5.                      | Relevant H statements (number and full text) |                  |   |  |  |
|----------------------------|--|------------------|---|--|--|
|                            | H:   | 314              | Causes severe skin burns and eye damage.  |  |  |
|                            |  | 335              | May cause respiratory irritation.   |  |  |
| 16.6.                      | 5. Training advice:                          |                  | -   |  |  |
|                            |  |                  | ** "X" in the product code marks different volumes (different packagings of the product)  |  |  |
| 16.7. Further information: |  | her information: | We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. |  |  |

ANNEX: Exposure scenario resulting to Chemical safety assessment



Page 1 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |  |
|---------------|----------------|----------------|-------------|----------|---|--|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |  |

| SECTI | ON 1: Identification of t | he substand   | ce/mixture a  | and of the company/undertaking                         |  |  |
|-------|---------------------------|---|---|--|--|--|
| 1.1.  | Product identifier        |   |   |  |  |  |
|       | Trading name:             | ΗΕΜΑΤΟΧ   | YLIN ML   |  |  |  |
|       | Chemical name:            | -   |   |  |  |  |
|       | Catalogue number:         | HEMML-C   | DT-X**  |  |  |  |
| 1.2.  | Relevant identified use   | Relevant identified uses of the substance or mixture and uses advised against |   |  |  |  |
|       | Uses:                     |   | Modified  | hematoxylin acc. to Mayer-Lillie for nuclear staining. |  |  |
|       | Uses advised against:     |   | Only the  | identified uses are advised.                           |  |  |
|       | Reason why uses advis     | ed against:   | The product is intended for use only as an <i>in vitro</i> diagnostic<br>medical device, registered at the Agency for Medicinal Products and<br>Medical Devices and there is no reason to use it for other purposes |  |  |  |
| 1.3.  | Details of the supplier   | of the safet  | y data sheet  |  |  |  |
|       | Supplier:                 | В   | ioGnost Ltd.  |  |  |  |
|       | Address:                  | N   | Medjugorska 59, Zagreb  |  |  |  |
|       | Telephone number:         | +   | +385 1 2409997  |  |  |  |
|       | Fax no.:                  | +   | +385 1 2404039  |  |  |  |
|       | e-mail of competent p     | erson: <u>n</u>   | msds@biognost.hr  |  |  |  |
|       | National contact:         | _   |   |  |  |  |
| 1.4.  | Emergency telephone       | number  |   |  |  |  |
|       | National Protection an    | d Rescue Di   | irectorate:   | 112  |  |  |
|       | Medical information:      |   |   | +385 1 2348 342  |  |  |
|       | Other information:        |   |   | -  |  |  |

| SECTION 2. Hazards identification                                  |  |                |      |
|--|--|----------------|------|
| 2.1.   | Classification of the substance or mixture                     |                |      |
| 2.1.1.   | Classification according to Regulation (EC) No 1272/2008 (CLP) |                |      |
|  | Hazard class and category code: Hazard statements*:            |                |      |
|  | Eye Irr. 2 H319  |                | H319 |
| 2.1.2.   | Additional information   |                |      |
|  | -  |                |      |
| *For full text of Hazard- and EU Hazard-statements: see Section 16 |  |                |      |
| 2.2.   | Label elements   |                |      |
|  | Product identification:  | HEMATOXYLIN ML |      |
|  | Identification number:   | -              |      |
|  | Authorization no.:   | -              |      |



Page 2 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |  |
|---------------|----------------|----------------|-------------|----------|---|--|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |  |

|      | Hazard pictograms:   | GHS07  |  |
|------|--|--|--|
|      | Signal word:   | Warning  |  |
|      | Hazard statements:   | H319 Causes serious eye irritation.  |  |
|      | Precautionary statements:  | P280 Wear protective gloves/protective clothing/eye protection/face<br>protection.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several<br>minutes. Remove contact lenses if present and easy to do. Continue<br>rinsing. |  |
|      | Supplemetal hazard information (EU):   | -  |  |
| 2.3. | Other hazards  |  |  |
|      | <ul> <li>Endocrine Disrupting Properties:</li> <li>No known endocrine disrupting properties</li> <li>Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.</li> </ul> |  |  |

| SECTION 3. Composition/information on ingredients |                          |                                |                                     |   |
|---|--------------------------|--------------------------------|-------------------------------------|---|
| CAS/<br>EC/<br>Index no.                          | REACH<br>Registration No | Weight % content<br>(or range) | Identification<br>name              | Classification according to Regulation<br>(EC) No 1272/2008 (CLP) |
| 7784-31-8/<br>616-524-3/<br>-                     | -                        | 3 – 4 %                        | aluminum sulfate<br>octadecahydrate | Eye Dam. 1; H318  |

| SECTION 4. First aid measures |                                   |  |
|-------------------------------|-----------------------------------|--|
| 4.1.                          | Description of first aid measures |  |
|                               | General notes:                    | Take off contaminated clothing.  |
|                               | Following inhalation:             | Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.   |
|                               | Following skin contact:           | Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.  |
|                               | Following eye contact:            | In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. |
|                               | Following ingestion:              | Rinse mouth. Call a doctor if you feel unwell.   |



Page 3 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |
|---------------|----------------|----------------|-------------|----------|---|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |

|      | Self-protection of the first aider: Treat symptomatically.                 |                          |  |
|------|--|--------------------------|--|
| 4.2. | Most important symptoms and effects, both acute and delayed                |                          |  |
|      | Following inhalation:  | No information available |  |
|      | Following skin contact:  | No information available |  |
|      | Following eye contact: Risk of blindness, Risk of serious damage to eyes.  |                          |  |
|      | Following ingestion:   | No information available |  |
| 4.3. | Indication of any immediate medical attention and special treatment needed |                          |  |
|      | _  |                          |  |

| SECTIO | ECTION 5. Firefighting measures                                     |   |  |  |  |
|--------|---|---|--|--|--|
| 5.1.   | Extinguishing media   |   |  |  |  |
|        | Suitable extinguishing media:                                       | Small fire - water spray, dry powder, foam, CO <sub>2</sub><br>Large fire - water spray or alcohol-resistant foam |  |  |  |
|        | Unsuitable extinguishing media:                                     | water jet   |  |  |  |
| 5.2.   | Special hazards arising from the s                                  | ubstance or mixture   |  |  |  |
|        | Hazardous combustion products:                                      | No information available  |  |  |  |
| 5.3.   | Advice for firefighters   |   |  |  |  |
|        | Do not enter fire area without pro                                  | per protective equipment, including respiratory protection.   |  |  |  |
| 5.4.   | Additional information  |   |  |  |  |
|        | Remove sources of heat and ignit<br>Do not contaminate the environm |   |  |  |  |

| SECTIO | ON 6. Accidental release measures                                      |  |
|--------|--|--|
| 6.1.   | Personal precautions, protective e                                     | equipment and emergency procedures   |
| 6.1.1. | For non-emergency personnel  |  |
|        | Protective equipment:  | Use personal protective equipment (see Section 8).   |
|        | Accident prevention methods:   | Evacuate members of all non-essential personnel and those<br>members without protective equipment. Remove all sources of<br>sparks and ignition. Do not smoke. |
|        | Emergency procedures:  | Mark the area using proper signs.  |
| 6.1.2. | For emergency responders:  |  |
|        | Do not enter fire area without pro                                     | oper protective equipment, including respiratory protection.   |
| 6.2.   | Environmental precautions:   |  |
|        | Do not dispose of in sewage, drai<br>Protection and Rescue Directorate | nage system and waterways. In case of large spillage contact National<br>e (NPRD) on 112.  |
| 6.3.   | Methods and material for contain                                       | ment and cleaning up   |



Page 4 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |
|---------------|----------------|----------------|-------------|----------|---|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |

| 6.3.1. | Bunding, covering of drains; capping procedures: | Covering of drains. Take up mechanically.   |  |
|--------|--|---|--|
| 6.3.2. | Cleaning up:                                     | Soak up spills with inert solids, such as clay or diatomaceous earth as soon<br>as possible. On land, sweep or shovel into suitable containers. Submit for<br>disposal to the legal persons authorized by the Ministry of Environmental<br>and Nature Protection. After disposal of the products, wash the area and<br>and involved materials with water. |  |
| 6.3.3. | Other information:                               | Place in appropriate containers for disposal.   |  |
| 6.4.   | Reference to other sections                      |   |  |
|        | See Section 8 for information                    | See Section 7 for information about secure handling.<br>See Section 8 for information about personal protective equipment.<br>See Section 13 for information about containment.   |  |

| SECTIO | DN 7. Handling and storage   |  |  |  |
|--------|--|--|--|--|
| 7.1.   | Precautions for safe handling  |  |  |  |
| 7.1.1. | Protection measures  |  |  |  |
|        | Measures to prevent fire:  | Keep away from sources of heat and ignition. Do not smoke.   |  |  |
|        | Measures to prevent aerosol and dust generat   | ion: Secure proper ventilation.  |  |  |
|        | Measures to protect the environment:   | Prevent spilling into the sewage system and waterways.   |  |  |
|        | Other measures:  | -  |  |  |
| 7.1.2. | Advice on general occupational hygiene:  |  |  |  |
|        | Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating. |  |  |  |
| 7.2.   | Conditions for safe storage, including any incompatibilities                                     |  |  |  |
|        | Technical measures and storage conditions:   | Keep in tightly closed and upright set containers in a well ventilated place.  |  |  |
|        | Packaging materials:   | /anufacturer's original packaging.   |  |  |
|        | Requirements for storage rooms and vessels:  | Keep away from food and drink. Keep the containers tightly closed.   |  |  |
|        | Advices for storage equipment:   | The storage must be made of hard material; floors must<br>be resistant to chemicals. There must be no drain that<br>directly leads into sewage system. Secure proper<br>ventilation. |  |  |
|        | Further information on storage conditions:   | Do not place the unused material in the storage room<br>and do not use empty containers for storing other<br>chemicals. Do not store with incompatible materials (see<br>Section 9). |  |  |
| 7.3.   | Specific end use(s)  |  |  |  |



Soil (agricultural)

#### SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 5 of 17 Trading name: **HEMATOXYLIN ML** Product code: **HEMML-OT-X\*\*** Revision date: 27.03.2023. Version: 9 **Recommendations:** \_ Industrial sector specific solutions: \_ **SECTION 8. Exposure controls/personal protection** 8.1. Control parameters Occupational exposure limit values/short term values Substance CAS No **Biological limit values** mg/m<sup>3</sup> ppm No information available \_ \_ \_ \_ Substance Aluminium sulphate octadecahydrate name: CAS No: 7784-31-8 EC No: 233-135-0 DNEL Industrial **Route of** Acute Acute Chronic Chronic exposure: effect local effect systemic effect local effect systemic Oral \_ \_ \_ Inhalation \_ \_ \_ 13,4 mg/m<sup>3</sup> Dermal 3,8 mg/kg bw/day \_ \_ \_ \_ Critical physical parameters: solubility, flammability, corrosivity: Consumer Chronic Acute Acute Chronic **Route of** exposure: effect local effect local effect systemic effect systemic Oral \_ \_ \_ \_ Inhalation \_ \_ \_ \_ Dermal \_ \_ \_ \_ **PNEC PNEC** Environmental protection target Fresh water No information available Freshwater sediments No information available Marine water No information available Marine sediments No information available Food chain No information available Microorganisms in sewage treatment No information available

No information available



Page 6 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |
|---------------|----------------|----------------|-------------|----------|---|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |

| Air      |   |   | No information available   |  |  |
|----------|---|---|--|--|--|
|          |   |   |  |  |  |
| 8.2.     | Exposure controls   |   |  |  |  |
| 8.2.1.   | Engineering measures  |   |  |  |  |
|          | Substance/mixture relate<br>measures to prevent expe<br>during identified uses: |   | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.  |  |  |
|          | Structural measures to pr<br>exposure:  | revent  | No information available   |  |  |
|          | Organisational measures prevent exposure:                                       | to  | Organization of work in order to reduce other worker's influence during work process.  |  |  |
|          | Technical measures to pr<br>exposure:   | event   | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.   |  |  |
| 8.2.2.   | Personal protection equi  | oment   | ment   |  |  |
| 8.2.2.1. | Eye and face protection:  | Safety glasses that stick to face (preventing splashing) (EN 166) or visor. |  |  |  |
| 8.2.2.2. | Skin protection   |   |  |  |  |
|          | Hand protection:  | Chem<br>374.  | nical protection gloves are suitable, which are tested according to EN<br>Glove material: nitrile rubber<br>Glove thickness: > 0.11 mm<br>Break through time: >480 min |  |  |
|          | Other skin protection:  |   | antistatic clothing made of natural fibers (such as cotton) with long es (EN 13034), and shoes that cover the entire foot (EN 10335).                                  |  |  |
| 8.2.2.3. | Respiratory protection:   | In cas  | se of inadequate ventilation wear respiratory protection.  |  |  |
| 8.2.2.4. | Thermal hazards:  | No in   | formation available  |  |  |
| 8.2.3.   | Environmental exposure  | controls  | 5  |  |  |
|          | Substance/mixture relate measures to prevent exp                                |   | See Section 6  |  |  |
|          | Structural measures to pr<br>exposure:  | revent  | Use modern equipment.  |  |  |
|          | Organisational measures prevent exposure:                                       | to  | Adapt the work process to the required working conditions of the workplace. Keep away from drains, surface and ground water.   |  |  |
|          | Technical measures to pr<br>exposure:   | event   | See Section 6  |  |  |

| SE | SECTION 9. Physical and chemical properties |  |                  |        |
|----|---|--|------------------|--------|
| 9. | 1.  | Information on basic physical and cher | nical properties |        |
|    |   |  | Value            | Method |



Page 7 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |
|---------------|----------------|----------------|-------------|----------|---|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |

|      | Physical state:   | liquid                                 | No information available |
|------|---|--|--------------------------|
|      | Color:  | dark red                               | No information available |
|      | Odour/odour threshold:                                    | glycerol like/no information available | No information available |
|      | Melting point / freezing point:                           | No information available               | No information available |
|      | Boiling point or initial boiling point and boiling range: | No information available               | No information available |
|      | Flammability:   | No information available               | No information available |
|      | Lover and upper explosion limit:                          | No information available               | No information available |
|      | Flash point:  | No information available               | No information available |
|      | Auto-ignition temperature:                                | No information available               | No information available |
|      | Decomposition temperature:                                | No information available               | No information available |
|      | pH:   | No information available               | No information available |
|      | Kinematic viscosity:                                      | No information available               | No information available |
|      | Solubility:   | No information available               | No information available |
|      | Partition coefficient n-octanol/water (log value):        | No information available               | No information available |
|      | Vapour pressure:  | No information available               | No information available |
|      | Density and/or relative density                           | No information available               | No information available |
|      | Relative vapour density:                                  | No information available               | No information available |
|      | Particle characteristics:                                 | No information available               | No information available |
| 9.2. | Other information   |  |                          |

| SECTIO | SECTION 10.: Stability and reactivity                  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|
| 10.1.  | Reactivity:         See subsections 10.3 through 10.5. |  |  |  |  |  |  |
| 10.2.  | Chemical stability:                                    | The product is chemically stable under standard ambient conditions of storing and using. |  |  |  |  |  |
| 10.3.  | Possibility of hazardous reactions:                    | No information available.  |  |  |  |  |  |
| 10.4.  | Conditions to avoid:                                   | No information available.  |  |  |  |  |  |
| 10.5.  | Incompatible materials:                                | No information available.  |  |  |  |  |  |
| 10.6.  | Hazardous decomposition products:                      | No information available.  |  |  |  |  |  |

| SECTIO | SECTION 11. Toxicological information                                    |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|--|
| 11.1.  | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |  |  |  |  |  |  |  |
|        | Acute toxicity:  |  |  |  |  |  |  |  |



Page 8 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |  |  |  |
|---------------|----------------|----------------|-------------|----------|---|--|--|--|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |  |  |  |

| Route of<br>exposure:   | Method                      | Species | Effective<br>dose<br>LD <sub>50</sub> /LC <sub>50</sub><br>or<br>ATE <sub>mixture</sub> | Exposure<br>time | Results  |
|-------------------------|-----------------------------|---------|---|------------------|--|
| Oral exposure:          | anhydrous (ECHA)            | rabbit  | LD <sub>50</sub>  | -                | >2.000-<5.000 mg/kg<br>(aluminium sulphate<br>octadecahydrate) |
| Dermal exposure:        | anhydrous (ECHA)            | rat     | LD <sub>50</sub>  | -                | >5.000mg/kg<br>(aluminium sulphate<br>octadecahydrate)         |
| Inhalation<br>exposure: | No information<br>available | -       | LC <sub>50</sub>  | -                | -  |

| Specific targ | et organ | toxicity - | single | exposure ( | STOT SE) | : |
|---------------|----------|------------|--------|------------|----------|---|
|               |          |            |        |            |          |   |

|                      | Specific effects         | Target organ                | Note |
|----------------------|--------------------------|-----------------------------|------|
| Oral exposure:       | No information available | No information<br>available | -    |
| Dermal exposure:     | No information available | No information<br>available | -    |
| Inhalation exposure: | No information available | No information<br>available | -    |

Respiratory irritation:

No information available

|                  |  |                    | 1              | 1          | i de la companya de l |
|------------------|--|--------------------|----------------|------------|---|
|                  | Exposure time                                      | Species            | Evaluati       | Meth       | Note  |
|                  | Exposure time                                      | Species            | on             | od         | note  |
| Skin irritation: | -  | -                  | -              | -          |   |
| Eye irritation:  | -  | -                  | -              | -          | Causes serious eye damage   |
| Dermal exposure: | No information availabl                            | e                  |                |            |   |
| Inhalation       | No information availabl                            | e                  |                |            |   |
| exposure:        |  |                    |                |            |   |
| exposure:        |  |                    |                |            |   |
| •                | s related to the physical,                         | chemical and toxic | cological chai | racteristi | CS CS   |
|                  | s related to the physical,<br>No information avail |                    | ological char  | racteristi | CS  |



Page 9 of 17

|                                   |                          |                              |                                |                                |                                |                             | Page 9   | ot I/ |
|-----------------------------------|--------------------------|------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------|----------|-------|
| Trading name:                     |                          | HEMATOXYLIN ML               |                                |                                |                                |                             |          |       |
| Product code: HEI                 |                          | HEMML-OT-X**                 |                                | evision date:                  | 27.03.2023.                    | •                           | Version: |       |
| Inhalation expos<br>Eye exposure: | ure:                     | No informati<br>Causes serio | on available<br>us eye damag   | le                             |                                |                             |          |       |
|                                   |                          |                              |                                | ,                              |                                |                             |          |       |
| Repeat                            | ed dos                   | e toxicity (sub              | pacute, subch                  | ronic, chronic)                |                                |                             |          |       |
|                                   |                          | Dose                         | Exposure<br>time               | Species                        | Method                         | Evaluatio                   | n        | Note  |
| Subacute oral                     | No<br>availa             | information<br>able          | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No inforr<br>available      | nation   | -     |
| Subacute<br>dermal                | No<br>availa             | information<br>able          | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No inforr<br>available      | mation   | -     |
| Subacute<br>inhalation            | No information available |                              | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No information<br>available |          | -     |
| Subchronic<br>oral                | No information available |                              | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No information available    |          | -     |
| Subchronic<br>dermal              | No<br>availa             | information<br>able          | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No information available    |          | -     |
| Subchronic inhalation             | No<br>availa             | information<br>able          | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No information available    |          | -     |
| Chronic oral                      | No<br>availa             | information<br>able          | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No information available    |          | -     |
| Chronic dermal                    | No<br>availa             | information<br>able          | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No inforr<br>available      | nation   | -     |
| Chronic<br>inhalation             | No<br>availa             | information<br>able          | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No inforr<br>available      | nation   | -     |
| I                                 |                          |                              |                                |                                |                                |                             |          |       |
| Specific                          | targe                    | t organ toxici               |                                | exposure (STO                  | T RE):                         |                             |          |       |
|                                   |                          |                              | Specific effect                |                                | Target o                       | -                           | 1        | Note  |
| Subacute oral                     |                          |                              | tion available                 |                                | No information                 |                             | -        |       |
| Subacute derma                    |                          |                              | tion available                 |                                | No information                 |                             | -        |       |
| Subacute inhalat                  | ion                      |                              | tion available                 |                                | No information                 |                             | -        |       |
| Subchronic oral                   |                          | No informa                   | tion available                 | 9                              | No information                 | available                   | -        |       |



Page 10 of 17

| Trading r          | name:                  | HEMATOXYLIN ML |                                       |                          |                          |          |   |  |  |  |
|--------------------|------------------------|----------------|---------------------------------------|--------------------------|--------------------------|----------|---|--|--|--|
| Product code: HEMM |                        |                | MML-OT-X**                            | Revision date:           | 27.03.2023.              | Version: | 9 |  |  |  |
| Subchroni          | ic dermal              |                | No information av                     | ailable                  | No information available | -        |   |  |  |  |
| Subchroni          | ic inhalatio           | on             | No information av                     | ailable                  | No information available | -        |   |  |  |  |
| Chronic or         | ral                    |                | No information av                     | ailable                  | No information available | -        |   |  |  |  |
| Chronic de         | ermal                  |                | No information av                     | ailable                  | No information available | -        |   |  |  |  |
| Chronic in         | halation               |                | No information av                     | ailable                  | No information available | -        |   |  |  |  |
|                    |                        |                |                                       |                          |                          |          |   |  |  |  |
| C                  | CMR effec              | ts (ca         | rcinogenicity, muta                   | igenicity, reproductiv   | e toxicity)              |          |   |  |  |  |
| C                  | Carcinogenicity:       |                |                                       | No information available |                          |          |   |  |  |  |
| ١                  | Mutagenicity in-vitro: |                |                                       | No information available |                          |          |   |  |  |  |
| C                  | Genotoxic              | ity:           |                                       | No information available |                          |          |   |  |  |  |
| ١                  | Mutagenio              | city in        | n-vivo:                               | No information available |                          |          |   |  |  |  |
| C                  | Germ cell              | muta           | genicity:                             | No information available |                          |          |   |  |  |  |
| F                  | Reproduct              | ive to         | oxicity:                              | No information av        | ailable                  |          |   |  |  |  |
|                    |                        |                |                                       |                          |                          |          |   |  |  |  |
| S                  | Summary                | of eva         | aluation of the CMI                   | R properties:            | -                        |          |   |  |  |  |
|                    |                        |                |                                       |                          |                          |          |   |  |  |  |
|                    |                        |                | other hazards:                        |                          |                          |          |   |  |  |  |
|                    |                        |                | pting properties:                     |                          |                          |          |   |  |  |  |
| -                  | No knov<br>properties  |                | endocrine disru<br>affect human healt |                          |                          |          |   |  |  |  |
| 11.2.2.            | Other info             | rmati          | ions:                                 |                          |                          |          |   |  |  |  |
| -                  |                        |                |                                       |                          |                          |          |   |  |  |  |

| SECTION 12. Ecological information |                  |                  |                          |                             |  |      |  |  |  |  |  |
|------------------------------------|------------------|------------------|--------------------------|-----------------------------|--|------|--|--|--|--|--|
| 12.1. Toxicity                     |                  |                  |                          |                             |  |      |  |  |  |  |  |
| Acute (short-term)<br>toxicity     | Dose             | Exposure<br>time | Species                  | Method                      | Evaluation   | Note |  |  |  |  |  |
| Fish                               | LC <sub>50</sub> | 96 hours         | Fish                     | ECHA                        | >85.9 mg/l<br>(aluminium<br>sulphate<br>octadecahydrate) | -    |  |  |  |  |  |
| Crustacea:                         | EC <sub>50</sub> | 48 hours         | aquatic<br>invertebrates | ECHA                        | >200 mg/l<br>(aluminium<br>sulphate<br>octadecahydrate)  | -    |  |  |  |  |  |
| Algae/aquatic<br>plants            | IC <sub>50</sub> | 8 days           | algae                    | No information<br>available | -  | -    |  |  |  |  |  |



Page 11 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |  |  |  |
|---------------|----------------|----------------|-------------|----------|---|--|--|--|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |  |  |  |

| Microorganisms          | LC <sub>50</sub> | 72 hours         | -                        | -                        | -   | -    |
|-------------------------|------------------|------------------|--------------------------|--------------------------|---|------|
| Chronic toxicity        | Dose             | Exposure<br>time | Species                  | Method                   | Evaluation  | Note |
| Fish                    | LC <sub>50</sub> | 96 hours         | No information available | No information available | No information available                                  | _    |
| Crustacea:              | EC <sub>50</sub> | 48 hours         | No information available | No information available | No information available                                  | -    |
| Algae/aquatic<br>plants | IC <sub>50</sub> | 72 hours         | No information available | No information available | No information available                                  | -    |
| Other organisms         | EC <sub>50</sub> | 180 min          | microorganisms           | ECHA                     | >1.000 mg/l<br>(aluminium<br>sulphate<br>octadecahydrate) | -    |

#### 12.2. Persistence and degradability

| Abiotic degradation |                          |                          |                          |      |  |  |  |  |
|---------------------|--------------------------|--------------------------|--------------------------|------|--|--|--|--|
|                     | Degradation half-lives   | Method                   | Evaluation               | Note |  |  |  |  |
| Marine<br>water     | No information available | No information available | No information available | -    |  |  |  |  |
| Fresh water         | No information available | No information available | No information available | -    |  |  |  |  |
| Air                 | No information available | No information available | No information available | -    |  |  |  |  |
| Soil                | No information available | No information available | No information available | -    |  |  |  |  |

#### Biodegradation

| % Degradation            | Time (days)              | Method                      | Evaluation                  | Note                        |
|--------------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|
| No information available | No information available | No information<br>available | No information<br>available | No information<br>available |
|                          |                          |                             |                             |                             |
|                          |                          |                             |                             |                             |

#### 12.3. Bioaccumulative potential

| Partition coefficient: n-octanol/water (log Ko | ): |
|--|----|
|--|----|

| Value | Concentration            | рН | °C | Method                   | Evaluation               | Note |
|-------|--------------------------|----|----|--------------------------|--------------------------|------|
| -     | No information available | -  | -  | No information available | No information available | -    |
|       |                          |    |    |                          |                          |      |
|       |                          |    |    |                          |                          |      |
|       |                          |    |    |                          |                          |      |



Page 12 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |  |
|---------------|----------------|----------------|-------------|----------|---|--|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |  |

|   |   | Thran                                    | on factor (BCF)                       | /                              |                                    |                                    | F                        |                             |                             |                |      |
|---|---|--|---------------------------------------|--------------------------------|------------------------------------|------------------------------------|--------------------------|-----------------------------|-----------------------------|----------------|------|
| · · ·                                     |   | Species<br>inform                        | Methoo<br>nation No informat          |                                |                                    |                                    |                          |                             | Nc<br>No informat           |                |      |
| available                                 |   | ava                                      | ilable                                |                                | availabl                           |                                    | available                |                             |                             | available      |      |
|   | Chronic e   | ecoto                                    | kicity                                |                                |                                    |                                    |                          |                             |                             |                |      |
|   | Value   |  | Dose                                  |                                | osure<br>me                        | Species                            | Meth                     | od                          | Eva                         | aluation       | Note |
| Chronic toxicity on fish LC <sub>50</sub> |   | LC <sub>50</sub>                         | No<br>information<br>available        |                                | No<br>informat<br>ion<br>available | No inform<br>available             | ation                    | No information<br>available |                             | -              |      |
|   | Chronic toxicity on<br>crustacea ( <i>Daphnia</i> ) |  | EC <sub>50</sub>                      | No<br>information<br>available |                                    | No<br>informat<br>ion<br>available | No inform<br>available   | ation                       | No information<br>available |                | -    |
|   |   | natio                                    | licted distribut<br>n available<br>n: | ion in e                       | nvironm                            | ental comp                         | oartments:               |                             |                             |                |      |
|   | Value   |  | °C                                    | Concent                        |                                    | entration                          | ion Method               |                             | Note                        |                |      |
|   | Information   |  | No inform<br>available                | mation No info<br>availab      |                                    | rmation<br>e                       | No information available |                             | -                           |                |      |
|   |   |  |                                       |                                |                                    |                                    |                          |                             |                             |                |      |
|   | Adsorptio   | on / d                                   | esorption                             |                                |                                    |                                    |                          |                             |                             |                |      |
| Transpor                                  | t   | -  | oefficient<br>s constant              | lo                             | g Kow                              | Evapoi                             | ration rate              | М                           | ethod                       |                | Note |
| Soil-wate                                 | er No<br>avail                                      | able                                     | information                           | No in<br>availa                | formatio<br>ble                    | n No info<br>availab               |                          |                             | ormatior<br>ole             | ٦ <sub>-</sub> |      |
| Water-ai                                  | r No<br>avail                                       | able                                     | information                           |                                | formatio<br>ble                    | n No info<br>availab               | ormation<br>le           | No info<br>availat          | ormatior<br>ole             | ۱<br>-         |      |
| Water-air available information           |   | available<br>No information<br>available |                                       | n No inf                       | ormation                           | No inf                             | ormatior                 | <b>`</b>                    |                             |                |      |



Page 13 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |  |
|---------------|----------------|----------------|-------------|----------|---|--|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |  |

| 12.5.   | Results of PBT and vPvB assessment  |
|---------|---|
|         | No information available  |
|         |   |
| 12.6.   | Endocrine disrupting properties   |
|         | No known endocrine disrupting properties that affect the environment.   |
|         |   |
| 12.7.   | Other adverse effects   |
|         | No adverse effects are expected.  |
|         |   |
| SECTIO  | N 13. Disposal considerations   |
| 13.1.   | Waste treatment methods   |
|         |   |
| 13.1.1. | Product/Packaging disposal:   |
|         | Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature  |
|         | Protection.   |
| 13.1.2. | Waste codes/waste designations according to Law:  |
| 13.1.2. | No information available  |
|         |   |
| 13.1.3. | Waste treatment – relevant information:   |
|         | No information available  |
|         |   |
| 13.1.4. | Sewage disposal – relevant information:   |
|         | Waste must not be disposed of into the sewage system.   |
|         |   |
| 13.1.5. | Other disposal recommendations:   |
|         | Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit |
|         | the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.   |
| 13.1.6. | Relevant Community provisions:  |
|         | -   |
|         |   |
| SECTIO  | N 14. Transport information   |
|         | Transporting/shipment by road (ADR)   |
|         |   |



### SAFETY DATA SHEET **BIOGNOST**<sup>®</sup> According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 1/ of 17

|                          |                        |                                       |                    |                  | Page 14  |   |  |
|--------------------------|------------------------|---------------------------------------|--------------------|------------------|----------|---|--|
| Trading name:            |                        |                                       | HEMAT              | OXYLIN ML        |          |   |  |
| Product code:            | HEMML-OT-X**           |                                       | Revision date:     | 27.03.2023.      | Version: | 9 |  |
|                          | :                      |                                       | :                  | :                | :        | 1 |  |
| UN number:               |                        | No                                    | subject to transpo | ort regulations. |          |   |  |
| UN proper shipping       | g name:                | -                                     |                    |                  |          |   |  |
| Transport hazard cl      | ass(es):               | -                                     |                    |                  |          |   |  |
| Packing group:           |                        | -                                     |                    |                  |          |   |  |
| Environmentally ha       | zardous:               | -                                     |                    |                  |          |   |  |
| Special precautions      | s for user:            | -                                     |                    |                  |          |   |  |
| Transport                | ing/shipment by rail ( | RID)                                  |                    |                  |          |   |  |
| UN number:               |                        | No                                    | subject to transpo | ort regulations. |          |   |  |
| UN proper shipping       | g name:                | -                                     |                    |                  |          |   |  |
| Transport hazard cl      | ass(es):               | -                                     |                    |                  |          |   |  |
| Packing group:           |                        | -                                     |                    |                  |          |   |  |
| Environmentally ha       | zardous:               | -                                     |                    |                  |          |   |  |
| Special precautions      | s for user:            | -                                     |                    |                  |          |   |  |
| Inland wa                | terway transport (ADN  | J)                                    |                    |                  |          |   |  |
| UN number:               |                        | Not subject to transport regulations. |                    |                  |          |   |  |
| UN proper shipping       | g name:                | -                                     |                    |                  |          |   |  |
| Transport hazard cl      | ass(es):               | -                                     |                    |                  |          |   |  |
| Packing group:           |                        | -                                     |                    |                  |          |   |  |
| Environmentally ha       | zardous:               | -                                     |                    |                  |          |   |  |
| Special precautions      | s for user:            | -                                     |                    |                  |          |   |  |
| Transport                | ing/shipment by sea (  | IMDG                                  | )                  |                  |          |   |  |
| UN number:               |                        | Not subject to transport regulations. |                    |                  |          |   |  |
| UN proper shipping       | g name:                | -                                     |                    |                  |          |   |  |
| Transport hazard cl      | ass(es):               | -                                     |                    |                  |          |   |  |
| Packing group:           |                        | -                                     |                    |                  |          |   |  |
| Environmentally ha       | zardous:               | -                                     |                    |                  |          |   |  |
| Special precautions      | s for user:            | -                                     |                    |                  |          |   |  |
| Transport                | ing/shipment by air (l | CAO-                                  | ΓΙ/IATA-DGR)       |                  |          |   |  |
| UN number:               |                        | Not subject to transport regulations. |                    |                  |          |   |  |
| UN proper shipping name: |                        | -                                     |                    |                  |          |   |  |
| Transport hazard cl      | ass(es):               | -                                     |                    |                  |          |   |  |
| Packing group:           |                        | -                                     |                    |                  |          |   |  |
| Environmentally ha       | zardous:               | -                                     |                    |                  |          |   |  |
| Special precautions      | s for user:            | -                                     |                    |                  |          |   |  |
|                          |                        |                                       |                    |                  |          |   |  |



Page 15 of 17

| Trading name: | HEMATOXYLIN ML |                |             |          |   |
|---------------|----------------|----------------|-------------|----------|---|
| Product code: | HEMML-OT-X**   | Revision date: | 27.03.2023. | Version: | 9 |

Further information:

The product is not subject to classification.

| 5.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture  |   |  |  |  |  |
|------|---|---|--|--|--|--|
|      | EU regulations  |   |  |  |  |  |
|      | Authorization and/or rest   | rictions of use   |  |  |  |  |
|      | Authorizations:   | -   |  |  |  |  |
|      | Restrictions:   | -   |  |  |  |  |
|      | Other EU regulations:   | <ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2000 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;</li> <li>Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> </ul> |  |  |  |  |
|      |   | <ul> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 1</li> <li>December 2008 on classification, labelling and packaging of substances an mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, an amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certai dangerous substances, mixtures and articles (Annex XVII);</li> </ul>   |  |  |  |  |
|      | Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-<br>guideline)  |   |  |  |  |  |
|      | National legislation: Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act |   |  |  |  |  |
| 5.2. | Chemical safety assessme  | ent   |  |  |  |  |
|      | None  |   |  |  |  |  |

| SECTION 16. Other information |                        |   |  |  |  |
|-------------------------------|------------------------|---|--|--|--|
| 16.1.                         | Indication of changes: | - |  |  |  |



-

### SAFETY DATA SHEET **BIOGNOST**<sup>®</sup> According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 16 of 17

|           |  |                   |  |   |                         |                        | Page 16              | of 17   |
|-----------|--|-------------------|--|---|-------------------------|------------------------|----------------------|---------|
| Trading   | g nan  | ne:               |  |   | HEMAT                   | OXYLIN ML              |                      |         |
| Produc    | Product code: HEMML-OT-X*                      |                   | ŧ  | Revision date:  | 27.03.2023.             | Version:               | 9                    |         |
|           |  |                   | 1  |   | 1                       |                        | 1                    | 1       |
| 16.2.     | Abbreviations and acronyms:                    |                   | <ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul> |   |                         |                        |                      |         |
| 16.3.     |  | literat<br>rce of | ture references and<br>data:   | I   | -                       |                        |                      |         |
| 16.4.     |  |                   | ion and procedure<br>8 (CLP)   | used to   | o derive the classifica | ation for mixture acco | ording to Regulation | on (EC) |
| Classific | ation  |                   |  | Classification procedure  |                         |                        |                      |         |
| -         |  |                   |  | -   |                         |                        |                      |         |
| 16.5.     | Rele   | evant l           | H statements (num  | ber and   | full text)              |                        |                      |         |
|           | H:   | 318               |  | Cause   | s serious eye damag     | е.                     |                      |         |
|           | 319 Cau  |                   | Causes   | Causes serious eye irritation.  |                         |                        |                      |         |
| 16.6.     | Trai   | ning a            | g advice: -  |   |                         |                        |                      |         |
| 16.7.     | the pr<br>Further information: We ar<br>instru |                   | oduct)<br>e not responsible for  | marks different volu<br>r consequences in ca<br>roper use of the proc | se of failure to cor    | nply with              |                      |         |

# ANNEX: Exposure scenario resulting to Chemical safety assessment



Page 1 of 16

| Trading name: | <b>PERIODIC ACID, 0.8 % SOLUTION</b> |                      |             |          |   |
|---------------|--------------------------------------|----------------------|-------------|----------|---|
| Product code: | PK08-OT-X**                          | Date of compilation: | 21 Dec 2022 | Version: | 4 |

| SECTI | ON 1 IDENTIFICATION                              | OF THE SU                  | BSTANCE/MI  | XTURE AND OF THE COMPANY/UNDERTAKING |  |  |
|-------|--|----------------------------|---|--------------------------------------|--|--|
| 1.1.  | Product identifier                               |                            |   |                                      |  |  |
|       | Trading name:                                    | PERIODIO                   | C ACID, 0.8 % S   | SOLUTION                             |  |  |
|       | Chemical name:                                   | -                          |   |                                      |  |  |
|       | Catalogue number:                                | PK08-OT                    | -X**  |                                      |  |  |
| 1.2.  | Relevant identified use                          | es of the su               | bstance or mix  | xture and uses advised against       |  |  |
|       | Uses:  |                            | For use wi  | th special staining kits.            |  |  |
|       | Uses advised against:                            |                            | Only the i  | dentified uses are advised.          |  |  |
|       | Reason why uses advised against                  |                            | <ul> <li>The product is intended for use only as an <i>in vitro</i> diagnostic</li> <li>t: medical device, registered at the Agency for Medicinal Products and<br/>Medical Devices and there is no reason to use it for other purposes</li> </ul> |                                      |  |  |
| 1.3.  | Details of the supplier of the safety data sheet |                            |   |                                      |  |  |
|       | Supplier:  |                            | BioGnost Ltd.   |                                      |  |  |
|       | Address:   |                            | Medjugorska 59, Zagreb  |                                      |  |  |
|       | Telephone number:                                |                            | +385 1 2409997  |                                      |  |  |
|       | Fax no.:   |                            | +385 1 2404039  |                                      |  |  |
|       | e-mail of competent p                            | erson:                     | msds@biognost.hr  |                                      |  |  |
|       | National contact:                                |                            | -   |                                      |  |  |
| 1.4.  | Emergency telephone                              | Emergency telephone number |   |                                      |  |  |
|       | National Protection ar                           | nd Rescue I                | Directorate:  | 112                                  |  |  |
|       | Medical information:                             |                            |   | +385 1 2348 342                      |  |  |
|       | Other information:                               |                            |   | -                                    |  |  |

| SECTIO   | ECTION 2 HAZARDS INFORMATION               |                   |                     |  |  |
|----------|--|-------------------|---------------------|--|--|
| 2.1.     | Classification of the substance or mixture |                   |                     |  |  |
| 2.1.1.   | Classification (REGULATION (EC) N          | No. 1272/2008 (   | CLP)                |  |  |
|          | Hazard class and category                  | code:             | Hazard statements*: |  |  |
|          | Not identified as hazardous substance      |                   |                     |  |  |
| 2.1.2.   | Additional information                     |                   |                     |  |  |
|          | -  |                   |                     |  |  |
| *For ful | text of Hazard- and EU Hazard-sta          | tements: see Se   | ection 16           |  |  |
| 2.2.     | Classification according to EC Dire        | ective Nr. 1272/2 | 2008 CLP)           |  |  |
|          | Product identification:                    | PERIODIC ACII     | D, 0.8 % SOLUTION   |  |  |
|          | Identification number:                     | -                 |                     |  |  |
|          | Authorization no.:                         | -                 |                     |  |  |
|          | Hazard pictograms:                         | -                 |                     |  |  |



Page 2 of 16

| Trading name: | PERIODIC ACID, 0.8 % SOLUTION |                      |             |            |
|---------------|-------------------------------|----------------------|-------------|------------|
| Product code: | PK08-OT-X**                   | Date of compilation: | 21 Dec 2022 | Version: 4 |

|      | Signal word:  | -  |
|------|---|--|
|      | Hazard statements:                                    | -  |
|      | Precautionary statements:                             | -  |
|      | Further information:                                  | -  |
| 2.3. | Other hazards   |  |
|      | Endocrine Disrupting Proper                           | ties:  |
|      | No known endocrine disrupting properties              |  |
|      | <b>Results of PBT and vPvB asse</b><br>PBT or a vPvB. | essment: According to the results of its assessment, this substance is not a |

| SECTION 3 CC             | SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS |                                |                        |   |  |  |  |
|--------------------------|--|--------------------------------|------------------------|---|--|--|--|
| CAS/<br>EC/<br>Index no. | REACH<br>Registration No                         | Weight % content<br>(or range) | Identification<br>name | Classification according to Regulation<br>(EC) No 1272/2008 (CLP) |  |  |  |
| -                        | -  | -                              | -                      | -   |  |  |  |

| SECTIO | ON 4 FIRST AID MEASURES           |          |  |
|--------|-----------------------------------|----------|--|
| 4.1.   | Description of first aid measures |          |  |
|        | General notes:                    |          | -  |
|        | Following inhalation:             |          | Carry the afflicted person out of the contaminated area into a well-<br>ventilated area or out for fresh air. If breathing becomes erratic or it<br>stops, immediately apply artificial respiration (other than mouth-to-<br>mouth) and contact a physician. |
|        | Following skin contact:           |          | Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.  |
|        | Following eye contact:            |          | Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.   |
|        | Following ingestion:              |          | Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.  |
|        | Self-protection of the first a    | ider:    | Treat symptomatically.   |
| 4.2.   | Most important symptoms a         | and effe | ects, both acute and delayed   |
|        | Following inhalation:             |          | lation of large amounts of vapors in inadequately ventilated perimeter cause coughing, sneezing, headache and nausea.  |
|        | Following skin contact:           | -        | it irritation. After short exposure, resorption effects are not likely. Long-<br>exposure may cause drying, cracking and tingling sensation of skin.   |



Page 3 of 16

| Trading name: | PERIODIC ACID, 0.8 % SOLUTION |                      |             |            |
|---------------|-------------------------------|----------------------|-------------|------------|
| Product code: | PK08-OT-X**                   | Date of compilation: | 21 Dec 2022 | Version: 4 |

|      | Following eye contact:    | Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.   |
|------|---------------------------|--|
|      | Following ingestion:      | Swallowing may cause irritation of mucosa, tingling sensation in the mouth,<br>burning sensation; higher levels of concentration may cause nausea,<br>abdominal pain and vomiting. In case of vomiting, aspiration causes<br>coughing, difficult breathing. Higher levels of concentration may cause<br>suffocation. |
| 4.3. | Indication of any immedia | te medical attention and special treatment needed  |
|      | -                         |  |

| SECTIO | SECTION 5 FIREFIGHTING MEASURES  |   |  |  |  |
|--------|--|---|--|--|--|
| 5.1.   | Extinguishing media  |   |  |  |  |
|        | Suitable extinguishing media:  | Small fire - water spray, dry powder, CO <sub>2</sub><br>Large fire - water spray or alcohol-resistant foam |  |  |  |
|        | Unsuitable extinguishing media:  | water jet   |  |  |  |
| 5.2.   | Special hazards arising from the su                                    | ibstance or mixture   |  |  |  |
|        | Hazardous combustion products:   | No information available  |  |  |  |
| 5.3.   | Advice for firefighters  |   |  |  |  |
|        | Use a self-contained open-circuit of Cool closed containers exposed to | compressed air breathing apparatus and fireproof clothing.<br>fire with water spray or vapor.               |  |  |  |
| 5.4.   | Additional information   |   |  |  |  |
|        | Remove sources of heat and ignition.                                   |   |  |  |  |
|        | Do not contaminate the environme                                       | ent with extinguishing media.   |  |  |  |

| SECTIO | SECTION 6 ACCIDENTAL RELEASE MEASURES   |  |  |  |  |
|--------|---|--|--|--|--|
| 6.1.   | Personal precautions, protective equipment and emergency procedures   |  |  |  |  |
| 6.1.1. | For non-emergency personnel   |  |  |  |  |
|        | Protective equipment:   | Use personal protective equipment (see Section 8).   |  |  |  |
|        | Accident prevention methods:  | Evacuate members of all non-essential personnel and those<br>members without protective equipment. Remove all sources of<br>sparks and ignition. Do not smoke. |  |  |  |
|        | Emergency procedures:   | Mark the area using proper signs.  |  |  |  |
| 6.1.2. | For emergency responders:   |  |  |  |  |
|        | Wear protective equipment (see Se   | ection 8).   |  |  |  |
| 6.2.   | Environmental precautions:  |  |  |  |  |
|        | Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112. |  |  |  |  |
| 6.3.   | Methods and material for containm   | nent and cleaning up   |  |  |  |



Page 4 of 16

| Trading name: | PERIODIC ACID, 0.8 % SOLUTION |                      |             |            |  |  |  |  |
|---------------|-------------------------------|----------------------|-------------|------------|--|--|--|--|
| Product code: | PK08-OT-X**                   | Date of compilation: | 21 Dec 2022 | Version: 4 |  |  |  |  |

| 6.3.1. | Bunding, covering of drains;<br>capping procedures: | Sand or clay barriers.  |
|--------|---|---|
| 6.3.2. | Cleaning up:  | Where possible, the substance can be absorbed by using inflammable<br>material (sand, diatomaceous earth, vermiculite). Place the waste material<br>in tightly closed impermeable containers. Store the substance in well<br>ventilated storage rooms until disposal. Submit for disposal to the legal<br>persons authorized by the Ministry of Environmental and Nature<br>Protection. After disposal of the products, wash the area and and involved<br>materials with water. |
| 6.3.3. | Other information:                                  | -   |
| 6.4.   | Reference to other sections                         |   |
|        | -   |   |

| SECTIO | DN 7 HANDLING AN STORAGE  |  |  |  |  |  |
|--------|---|--|--|--|--|--|
| 7.1.   | Precautions for safe handling   |  |  |  |  |  |
| 7.1.1. | Protection measures   |  |  |  |  |  |
|        | Measures to prevent fire:<br>Measures to prevent aerosol and dust generation:<br>Measures to protect the environment: |  | Keep away from sources of heat and ignition. Do not smoke.   |  |  |  |
|        |   |  | Secure proper ventilation.   |  |  |  |
|        |   |  | Prevent spilling into the sewage system and waterways.   |  |  |  |
|        | Other measures:   |  | -  |  |  |  |
| 7.1.2. | Advice on general occupational hygiene:   |  |  |  |  |  |
|        | Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.                      |  |  |  |  |  |
| 7.2.   | Conditions for safe storage, including any incompatibilities  |  |  |  |  |  |
|        | Technical measures and storage conditions:  | venti  | in tightly closed and upright set containers in a well<br>lated storage rooms, and away from sources of heat,<br>ght, and other incompatible substances.             |  |  |  |
|        | Packaging materials:  | Manufacturer's original packaging.   |  |  |  |  |
|        | Requirements for storage rooms and vessels:   | •  | away from food and drink. Keep the containers<br>ly closed.  |  |  |  |
|        | Advices for storage equipment:  | The storage must be made of hard material; floors<br>be resistant to chemicals. There must be no drain the<br>directly leads into sewage system. Secure proper<br>ventilation. |  |  |  |  |
|        | Further information on storage conditions:  | and o<br>chem  | ot place the unused material in the storage room<br>do not use empty containers for storing other<br>nicals. Do not store with incompatible materials (see<br>on 9). |  |  |  |
| 7.3.   | Specific end use(s)   |  |  |  |  |  |



Page 5 of 16

| Trading name: | PERIODIC ACID, 0.8 % SOLUTION |                      |             |            |  |  |  |
|---------------|-------------------------------|----------------------|-------------|------------|--|--|--|
| Product code: | PK08-OT-X**                   | Date of compilation: | 21 Dec 2022 | Version: 4 |  |  |  |

| Recommendations:                      | - |
|---------------------------------------|---|
| Industrial sector specific solutions: | - |

| SECTIO          | ON 8 EXPOSU     | RE CON    | TROLS/PER       | SONAL         | PROTE                    | CTION                         |                   |                       |                 |
|-----------------|-----------------|-----------|-----------------|---------------|--------------------------|-------------------------------|-------------------|-----------------------|-----------------|
| 8.1.            | Control para    | ameters   |                 |               |                          |                               |                   |                       |                 |
| Substance       |                 |           |                 | -             |                          | exposure limit<br>term values |                   | ological limit values |                 |
|                 |                 |           |                 |               | р                        | om                            | mg/m <sup>3</sup> |                       | -               |
|                 |                 |           | -               | -             | No infor                 | mation available              |                   |                       |                 |
|                 |                 |           |                 |               |                          |                               |                   |                       |                 |
| Substa<br>name: | ince -          |           |                 |               |                          |                               |                   |                       |                 |
| EC No:          | -               |           | CAS No:         | -             |                          |                               |                   |                       |                 |
| DNEL            |                 |           |                 |               |                          |                               |                   |                       |                 |
|                 |                 |           |                 |               | Indu                     | ıstrial                       |                   |                       |                 |
| Route           | of              | ļ         | Acute           |               | Acute                    |                               | Chro              | nic                   | Chronic         |
| exposure: ef    |                 | effe      | ect local       | effe          | ect syste                | emic                          | effect            | ocal                  | effect systemic |
| Oral            |                 | -         |                 | -             |                          |                               | -                 |                       | -               |
| Inhalat         | ion             | -         |                 | -             |                          |                               | -                 |                       | -               |
| Derma           | I               | -         |                 | -             |                          |                               | -                 |                       | -               |
| Critical        | l physical para | meters: s | solubility, fla | mmabilit      | ty, corro                | osivity:                      | -                 |                       |                 |
|                 |                 |           |                 | 1             | Cons                     | sumer                         | 1                 |                       | 1               |
| Route           | -               |           | Acute           |               |                          |                               | Chro              |                       | Chronic         |
| expos           | ure:            | effe      | ect local       | al effect sys |                          | emic                          | effect            | ocal                  | effect systemic |
| Oral            |                 | -         |                 | -             |                          |                               | -                 |                       | -               |
| Inhalat         | ion             | -         |                 | -             |                          |                               | -                 |                       | -               |
| Derma           | l               | -         |                 | -             |                          |                               | -                 |                       | -               |
| PNEC            |                 |           |                 |               |                          |                               |                   |                       |                 |
|                 | nmental proteo  | ction tar | get             |               |                          | PNEC                          |                   |                       |                 |
| Fresh v         |                 |           |                 |               |                          | No information available      |                   |                       |                 |
|                 | vater sediment  | S         |                 |               |                          | No information available      |                   |                       |                 |
| Marine water    |                 |           |                 |               | No information available |                               |                   |                       |                 |
|                 | e sediments     |           |                 |               |                          |                               | mation availab    |                       |                 |
| Food c          | hain            |           |                 |               |                          | No information available      |                   |                       |                 |
| Microc          | organisms in se | ewage tr  | eatment         |               |                          | No information available      |                   |                       |                 |
| Soil (ag        | gricultural)    |           |                 |               |                          | No infor                      | mation availat    | le                    |                 |



Page 6 of 16

| Trading name: | PERIODIC ACID, 0.8 % SOLUTION |                      |             |            |  |  |  |  |
|---------------|-------------------------------|----------------------|-------------|------------|--|--|--|--|
| Product code: | PK08-OT-X**                   | Date of compilation: | 21 Dec 2022 | Version: 4 |  |  |  |  |

| Air      |  |          | No information available  |  |  |  |
|----------|--|----------|---|--|--|--|
|          |  |          |   |  |  |  |
| 8.2.     | Exposure controls  |          |   |  |  |  |
| 8.2.1.   | Engineering measures   |          |   |  |  |  |
|          | Substance/mixture relate<br>measures to prevent exp<br>during identified uses: |          | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.   |  |  |  |
|          | Structural measures to preserve exposure:                                      | revent   | No information available  |  |  |  |
|          | Organisational measures prevent exposure:                                      | to       | Organization of work in order to reduce other worker's influence during work process.   |  |  |  |
|          | Technical measures to pr<br>exposure:  | event    | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.  |  |  |  |
| 8.2.2.   | Personal protection equi   | .ipment  |   |  |  |  |
| 8.2.2.1. | Eye and face protection:   |          | Safety glasses that stick to face (preventing splashing) (EN 166) or visor.   |  |  |  |
| 8.2.2.2. | Skin protection  |          |   |  |  |  |
|          |  |          | otective gloves must be according to the EU Directive 2016/425/EEC and<br>andard EN 374.<br>Glove material: nitrile rubber<br>Glove thickness: ≥0.50 mm<br>Break through time: >480 min   |  |  |  |
|          | Other skin protection:   |          | antistatic clothing made of natural fibers (such as cotton) with long<br>es (EN 13034), and shoes that cover the entire foot (EN 10335).  |  |  |  |
| 8.2.2.3. | Respiratory protection:  | filter f | ctive full face mask (EN 136) or half mask (EN 140) equipped with a<br>for organic vapors, type "A" (boiling point >65°C) acording to EN<br>') used when concentration levels exceed GVI. |  |  |  |
| 8.2.2.4. | Thermal hazards:   | No in    | formation available   |  |  |  |
| 8.2.3.   | Environmental exposure   | controls |   |  |  |  |
|          | Substance/mixture relate<br>measures to prevent exp                            |          | See Section 6   |  |  |  |
|          | Structural measures to preserve exposure:                                      | revent   | Use modern equipment.   |  |  |  |
|          | Organisational measures prevent exposure:                                      | to       | Adapt the work process to the required working conditions of the workplace.   |  |  |  |
|          | Technical measures to pr<br>exposure:  | revent   | See Section 6   |  |  |  |

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



Page 7 of 16

| Trading name: | PERIODIC ACID, 0.8 % SOLUTION |                      |             |            |  |  |  |
|---------------|-------------------------------|----------------------|-------------|------------|--|--|--|
| Product code: | PK08-OT-X**                   | Date of compilation: | 21 Dec 2022 | Version: 4 |  |  |  |

|   | Value                               | Method                   |
|---|-------------------------------------|--------------------------|
| Physical state:   | liquid                              | No information available |
| Colour:   | colourless                          | No information available |
| Odour/odour threshold:                                    | no odor/no information<br>available | No information available |
| Melting point / freezing point:                           | No information available            | No information available |
| Boiling point or initial boiling point and boiling range: | No information available            | No information available |
| Flammability:   | No information available            | No information available |
| Lover and upper explosion limit:                          | No information available            | No information available |
| Flash point:  | No information available            | No information available |
| Auto-ignition temperature:                                | No information available            | No information available |
| Decomposition temperature:                                | No information available            | No information available |
| pH:   | No information available            | No information available |
| Kinematic viscosity:                                      | No information available            | No information available |
| Solubility:   | No information available            | No information available |
| Partition coefficient n-octanol/water (log value):        | No information available            | No information available |
| Vapour pressure:  | No information available            | No information available |
| Density and/or relative density:                          | No information available            | No information available |
| Relative vapour density:                                  | No information available            | No information available |
| Particle characteristics:                                 | No information available            | No information available |

| SECTIO | SECTION 10 STABILITY AND REACTIVITY |  |  |  |  |
|--------|-------------------------------------|--|--|--|--|
| 10.1.  | Reactivity:                         | See subsections 10.3 through 10.5.   |  |  |  |
| 10.2.  | Chemical stability:                 | The product is chemically stable under standard ambient conditions of storing and using. |  |  |  |
| 10.3.  | Possibility of hazardous reactions: | With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.                         |  |  |  |
| 10.4.  | Conditions to avoid:                | Sources of heat, sparks, and ignition.   |  |  |  |
| 10.5.  | Incompatible materials:             | Aluminum.  |  |  |  |
| 10.6.  | Hazardous decomposition products:   | No information available.  |  |  |  |

#### SECTION 11 TOXICOLOGICAL INFORMATION



Page 8 of 16

| Trading name: | PERIODIC ACID, 0.8 % SOLUTION |                      |             |            |  |  |  |  |
|---------------|-------------------------------|----------------------|-------------|------------|--|--|--|--|
| Product code: | PK08-OT-X**                   | Date of compilation: | 21 Dec 2022 | Version: 4 |  |  |  |  |

| Acute toxi  | city:   |  |   |                               |           |               |
|---|---|--|---|-------------------------------|-----------|---------------|
| Route of<br>exposure:   | Method  | Species  | Effective dose<br>LD <sub>50</sub> /LC <sub>50</sub> or<br>ATE <sub>mixture</sub>           | Exposure t                    | ime       | Results       |
| Oral exposure:  | No information<br>available   | -  | LD <sub>50</sub>  | -                             |           | -             |
| Dermal exposure:  | No information<br>available   | -  | LD <sub>50</sub>  | -                             |           | -             |
| Inhalation<br>exposure:   | No information<br>available   | -  | LC <sub>50</sub>  | _                             |           | -             |
| Specific ta   | rget organ toxicity – si  | ngle exposure (S   | TOT SE):  |                               |           |               |
|   | Specif  | Target   | organ   |                               | Note      |               |
| Oral exposure:  | No information  | available  | No informatio   | n available                   | -         |               |
| Dermal exposure:  | No information  | available  | No informatio   | n available                   | -         |               |
| Inhalation exposure   | e: No information   | available  | No informatio   | No information available -    |           |               |
| ÷   |   |  |   |                               |           |               |
| Respirator  | y irritation:   | No inform  | nation available  |                               |           |               |
|   |   |  |   |                               |           |               |
| Irritation a  | nd corrosion  |  | 1 1   |                               |           |               |
|   | Exposure time   | Species  | Evaluation  | Method                        |           | Note          |
|   |   |  |   |                               |           |               |
| Skin irritation:  | -   | rabbit   | -   |                               |           |               |
|   | -   | rabbit<br>rabbit   | -   |                               |           |               |
| Eye irritation:   | -   |  |   |                               |           |               |
| Eye irritation:<br>Sensitizati  | -<br>on   | rabbit   |   |                               |           |               |
| Eye irritation:<br>Sensitizati<br>Dermal exposure:                            | on<br>No information avail  | rabbit   |   |                               |           |               |
| Sensitizati   | -<br>on   | rabbit   |   |                               |           |               |
| Eye irritation:<br>Sensitizati<br>Dermal exposure:<br>Inhalation<br>exposure: | on<br>No information avail  | able   |   |                               |           |               |
| Eye irritation:<br>Sensitizati<br>Dermal exposure:<br>Inhalation<br>exposure: | on<br>No information avail<br>No information avail<br>s related to the physica<br>Swallowing may c<br>sensation; higher | able<br>able<br>I, chemical and to<br>ause irritation of<br>levels of concent<br>g, aspiration cause | -<br>oxicological charad<br>mucosa, tingling s<br>ration may cause r<br>ses coughing, diffi | cteristics<br>sensation in th | ninal pai | n and vomitir |



Page 9 of 16

| Trading name:                        |                             | P                                  | ERIODIC AC                       | ID, 0.8 <sup>°</sup>                                    | % SOLUT                | ΓΙΟΝ                          |            |      |
|--------------------------------------|-----------------------------|------------------------------------|----------------------------------|---|------------------------|-------------------------------|------------|------|
| Product code:                        | PK08-OT-X**                 | D                                  | ate of compi                     | lation:   | 21 Dec                 | 2022                          | Version:   | 4    |
| Inhalation exposi                    | Ire <sup>.</sup>            | -                                  | ts of vapors in<br>ache and naus | •   | ately vent             | tilated perim                 | eter may o | ause |
| Eye exposure:                        | Direct eye c<br>sensation.  | ontact may ca                      | use slight to m                  | oderate   | irritation,            | lacrimation                   | and burnir | ıg   |
| 1                                    |                             |                                    |                                  |   |                        |                               |            |      |
| Repeate                              | d dose toxicity (su         | bacute, subchr                     | onic, chronic)                   |   |                        | - 1                           |            |      |
|                                      | Dose                        | Exposure<br>time                   | Species                          | Met   | hod                    | Evaluatior                    | n Not      | e    |
| Subacute oral                        | No information available    | No<br>information<br>available     | No<br>information<br>available   |   | rmation<br>lable       | No<br>informatio<br>available | on -       |      |
| Subacute<br>dermal                   | No information<br>available | No<br>information<br>available     | No<br>information<br>available   | formation information in                                |                        | No<br>informatio<br>available | on -       |      |
| Subacute<br>inhalation               | No information available    | No<br>information<br>available     | No<br>information<br>available   | No No<br>information information<br>available available |                        | on -                          |            |      |
| Subchronic oral                      | No information available    | No<br>information<br>available     | No<br>information<br>available   |   | rmation<br>lable       | No<br>informatio<br>available | on -       |      |
| Subchronic<br>dermal                 | No information available    | No<br>information<br>available     | No<br>information<br>available   |   | rmation<br>lable       | No<br>informatio<br>available | on -       |      |
| Subchronic inhalation                | No information available    | No<br>information<br>available     | No<br>information<br>available   |   | rmation<br>lable       | No<br>informatio<br>available | on -       |      |
| Chronic oral                         | No information available    | No<br>information<br>available     | No<br>information<br>available   |   | rmation<br>lable       | No<br>informatio<br>available | on -       |      |
| Chronic dermal                       | No information available    | No<br>information<br>available     | No<br>information<br>available   | -   | rmation<br>lable       | No<br>informatio<br>available | on -       |      |
| Chronic<br>inhalation                |                             |                                    | No<br>information<br>available   |   | rmation<br>lable       | No<br>informatio<br>available | on -       |      |
|                                      |                             |                                    |                                  | <b>T D C</b>  |                        |                               |            |      |
| Specific                             | target organ toxic          |                                    | •                                |   |                        |                               |            |      |
| <u> </u>                             |                             | Specific effects                   |                                  |   | arget org              |                               |            | ote  |
| Subacute oral                        |                             | ation available                    |                                  |   | ation ava              |                               | -          |      |
| Subacute dermal<br>Subacute inhalati |                             | ation available<br>ation available |                                  |   | ation ava<br>ation ava |                               | -          |      |



Page 10 of 16

|         |  |                             |                 |   |                           |                          | P               | Page 10 of 16 |  |  |  |
|---------|--|-----------------------------|-----------------|---|---------------------------|--------------------------|-----------------|---------------|--|--|--|
| Trading | name:  |                             |                 | PI  | ERIODIC A                 | CID, 0.8 % SOLUTION      |                 |               |  |  |  |
| Product | code:  | PK08                        | 3-OT-X**        | Da  | ate of comp               | ilation: 21 Dec 2022     | <u>۱</u>        | /ersion: 4    |  |  |  |
|         |  |                             |                 |   |                           |                          |                 |               |  |  |  |
| Subchro | nic oral   | 1                           | No information  | n available   | )                         | No information available |                 | -             |  |  |  |
| Subchro | nic derma  | 1 1                         | No informatior  | n available   | 9                         | No information available |                 | -             |  |  |  |
| Subchro | nic inhalat  | alation No information      |                 | n available   | )                         | No information available |                 | -             |  |  |  |
| Chronic | oral   | 1                           | No informatior  | n available   | )                         | No information available |                 | -             |  |  |  |
| Chronic | c dermal No information  |                             | n available     | )   | No information available  |                          | -               |               |  |  |  |
| Chronic | hronic inhalation No information   |                             | n available     | 2   | No information available  |                          | -               |               |  |  |  |
|         |  |                             |                 |   |                           |                          |                 |               |  |  |  |
|         | CMR effe   | cts (caro                   | cinogenicity, m | utagenicit  | ty, reproduct             | ve toxicity)             |                 |               |  |  |  |
|         | Carcinogenicity:   |                             | Current s       | studies on te   | st animals did not indica | te carcin                | ogenic effects. |               |  |  |  |
|         | Mutagen  | agenicity <i>in-vitro</i> : |                 | Current in vitro tests did not indicate mutagenic effects.                |                           |                          |                 |               |  |  |  |
|         | Genotoxi   | otoxicity:                  |                 | No inforr   | mation availa             | able                     |                 |               |  |  |  |
|         | Mutagenicity in-vivo:  |                             | Current         | <i>in vivo</i> test   | did not indicate mutag    | genic eff                | ects.           |               |  |  |  |
|         | Germ cell  | l mutage                    | enicity:        | No inforr   | mation availa             | able                     |                 |               |  |  |  |
|         | Reproduc   | ctive tox                   | cicity:         | No toxicity on reproductive organs was determined in reproductive organs. |                           |                          |                 |               |  |  |  |
|         | Summary  | of eval                     | uation of the C | CMR prope   | erties: -                 |                          |                 |               |  |  |  |
| 11.2    | Informati  | on on o                     | ther hazards:   |   |                           |                          |                 |               |  |  |  |
| 11.2.1. | Endocrine  | e disrup                    | ting properties | 5:  | 1                         |                          |                 |               |  |  |  |
|         | The substance/mixture does not<br>contain components considered to<br>have endocrine disrupting properties<br>according to REACH Article 57(f) or<br>Commission Delegated regulation (EU)<br>2017/2100 or Commission Regulation<br>(EU) 2018/605 at levels of 0.1% or<br>higher. |                             |                 |   |                           |                          |                 |               |  |  |  |
| 11.2.2. | Other info   | ormatio                     | ns:             |   |                           |                          |                 |               |  |  |  |
|         | -  |                             |                 |   |                           |                          |                 |               |  |  |  |
| , I     |  |                             |                 |   |                           |                          |                 |               |  |  |  |

| SECTION 12 ECOLOGICAL INFORMATION: |                  |                  |                             |                                |            |      |  |  |
|------------------------------------|------------------|------------------|-----------------------------|--------------------------------|------------|------|--|--|
| 12.1. Toxicity                     |                  |                  |                             |                                |            |      |  |  |
| Acute toxicity                     | Dose             | Exposure<br>time | Species                     | Method                         | Evaluation | Note |  |  |
| Fish                               | LC <sub>50</sub> | 96 hours         | No information<br>available | No<br>information<br>available | -          | _    |  |  |



Page 11 of 16

| Trading name: |             | PERIODIC ACID, 0.8   | % SOLUTION  |          |   |
|---------------|-------------|----------------------|-------------|----------|---|
| Product code: | PK08-OT-X** | Date of compilation: | 21 Dec 2022 | Version: | 4 |

| Crustacea:                  |                                      | EC <sub>50</sub>  | 48 hou       | urs                      | No information<br>available      |                                 | No<br>formation<br>available   |                        | -                        | -    |
|-----------------------------|--------------------------------------|-------------------|--------------|--------------------------|----------------------------------|---------------------------------|--------------------------------|------------------------|--------------------------|------|
| Algae/aquatic               | : plants                             | IC <sub>50</sub>  | 8 days       |                          | No information<br>available      |                                 | No<br>formation<br>available   |                        | -                        | -    |
| Microorganis                | ms                                   | LC <sub>50</sub>  | 72 hou       | urs                      |                                  |                                 |                                | -                      | -                        |      |
|                             |                                      |                   | Expos<br>tim |                          | Species                          |                                 | Method                         | Eva                    | luation                  | Note |
| Fish LC <sub>50</sub> 96    |                                      |                   | 96 hou       | urs                      | available                        |                                 | ormation<br>ilable             | No<br>inforn<br>availa | nation<br>ble            | -    |
| Crustacea: EC <sub>50</sub> |                                      | 48 hou            | urs          | No information available |                                  | ormation<br>ilable              | No<br>inforn<br>availa         | nation<br>ble          | -                        |      |
| Algae/aquatic               | Igae/aquatic plants IC <sub>50</sub> |                   | 72 hou       | urs                      | No information available         |                                 | No<br>information<br>available |                        | nation<br>ble            | -    |
| Other organis               | ms                                   | -                 | -            |                          |                                  |                                 |                                | -                      |                          | -    |
|                             |                                      |                   |              |                          |                                  |                                 |                                |                        |                          |      |
| 12.2. Persi                 | stence a                             | and degrada       | ability      |                          |                                  |                                 |                                |                        |                          |      |
| Abio                        | tic degr                             | adation           |              |                          |                                  |                                 |                                |                        |                          |      |
|                             | Deg                                  | gradation ha      | alf-lives    |                          | Method                           |                                 | Evaluation                     |                        | Note                     |      |
| Marine<br>water             | No in                                | formation a       | vailable     | Nc                       | o information avail              | n available No inforr           |                                | mation available       |                          | -    |
| Fresh water                 | No in                                | formation a       | vailable     | No                       | o information available No infor |                                 | No inforn                      | mation available       |                          | -    |
| Air                         | No in                                | formation a       | vailable     | Nc                       | information available No inform  |                                 |                                | mation available -     |                          |      |
| Soil                        | No in                                | formation a       | vailable     | Nc                       | information avail                | information available No inform |                                | mation available -     |                          | -    |
|                             |                                      |                   |              |                          |                                  |                                 |                                |                        |                          |      |
|                             | egradat                              |                   |              |                          |                                  |                                 |                                |                        |                          |      |
| % Degradatio                |                                      | Time (day         |              |                          | Method                           |                                 | Evaluatio                      |                        |                          | Note |
| No informatic<br>available  |                                      | o info<br>ailable | rmation      | No i<br>avail            | nformation<br>able               |                                 | o informati<br>/ailable        | on                     | No information available |      |
|                             |                                      |                   |              |                          |                                  |                                 |                                |                        |                          |      |
|                             |                                      |                   |              |                          |                                  |                                 |                                |                        |                          |      |
|                             |                                      | tive potenti      |              |                          |                                  |                                 |                                |                        |                          |      |
|                             |                                      | efficient: n-o    |              |                          | -                                |                                 |                                |                        |                          |      |
| Value                       | Conc                                 | entration         | рН           | °(                       | C Method                         |                                 | Evalu                          | ation                  |                          | Note |



Page 12 of 16

| Trading                                | g name                 | e:                                |                           |                   |                  | PER                  | IODIC                 | CACID,                   | 0.8 %                   | SOLUT             | ION               |                     |              |
|--|------------------------|-----------------------------------|---------------------------|-------------------|------------------|----------------------|-----------------------|--------------------------|-------------------------|-------------------|-------------------|---------------------|--------------|
| Produc                                 | t code                 | :                                 | PK08-OT-                  | X**               |                  | Date                 | of co                 | ompilati                 | on: 2                   | 1 Dec             | 2022              | Vers                | sion: 4      |
| -                                      |                        | No<br>availat                     | informatior<br>ble        | ו<br>-            |                  | _                    | No info<br>availab    | ormatior<br>lle          | -                       | inform<br>ailable | ation             | -                   |              |
|  |                        |                                   |                           |                   |                  |                      |                       |                          |                         |                   |                   |                     |              |
|  | Bioco                  | ncenti                            | ration facto              | r (BCF)           |                  |                      |                       |                          |                         |                   |                   |                     |              |
| V                                      | Value Species          |                                   |                           | ecies             | Method           |                      |                       | d                        | Evaluation              |                   |                   |                     | Note         |
| No info<br>availabl                    |                        |                                   | No<br>available           | inform            | ation            | No info<br>availabl  |                       | on                       | No inf<br>availat       | ormatio<br>ple    | on                | No info<br>availabl | rmation<br>e |
|  |                        |                                   |                           |                   |                  |                      |                       |                          |                         |                   |                   |                     |              |
|  | Chron                  | nic ecc                           | otoxicity                 |                   | 4                | -                    | 2                     |                          | 2                       |                   | -                 |                     |              |
|  | Valu                   | e                                 | Dose                      |                   | Exposure<br>time |                      | Sp                    | ecies                    | Met                     | hod               | Eva               | luation             | Note         |
| Chronic                                | toxicity               | toxicity on fish LC <sub>50</sub> |                           | 0                 | information in   |                      | No<br>infor<br>availa | mation<br>able           | No<br>inform<br>availat |                   | No inf<br>availat | ormation<br>ble     | -            |
| Chronic<br>crustace                    | -                      | -                                 | EC                        | 50                | information i    |                      | No<br>infor<br>availa | mation<br>able           | No<br>inform<br>availat |                   | No inf<br>availat | ormation<br>ble     | -            |
| 12.4.                                  | Mobil                  | ity in s                          | soil                      |                   |                  |                      |                       |                          |                         |                   |                   |                     | ·            |
|  |                        | •                                 | redicted di               | stributi          | on in e          | environm             | ental                 | compart                  | ments:                  |                   |                   |                     |              |
|  |                        |                                   | tion availat              |                   |                  |                      |                       | •                        |                         |                   |                   |                     |              |
|  | Surfac                 | ce tens                           | sion:                     |                   |                  |                      |                       |                          |                         |                   |                   |                     |              |
|  | Va                     | alue                              | o                         | С                 | C                | oncentra             | tion                  |                          | Metho                   | bd                |                   |                     | Note         |
|  | No<br>inform<br>availa |                                   | No<br>informa<br>availabl |                   |                  | informat<br>ailable  | tion                  | No inf<br>availat        | ormatio<br>ple          | n                 | -                 |                     |              |
|  |                        |                                   |                           |                   |                  |                      |                       |                          |                         |                   |                   |                     |              |
|  | Adsor                  | ption                             | / desorptic               | n                 |                  |                      |                       |                          |                         |                   |                   |                     |              |
| Transpc                                |                        | A/                                | D coefficier              | nt                | lc               | og Kow               | E                     | Evaporation rate         |                         | e Method          |                   |                     | Note         |
| Soil-water No information<br>available |                        | ation                             | No ir<br>availa           | nformatic<br>able |                  | o inform<br>/ailable | ation                 | No information available |                         | on _              |                   |                     |              |



Page 13 of 16

|                        |                     |                  |                                  |  |                          |              |            | Page 13 (   | of 16 |  |  |  |
|------------------------|---------------------|------------------|----------------------------------|--|--------------------------|--------------|------------|-------------|-------|--|--|--|
| Trading                | g name:             |                  | PERIODIC ACID, 0.8 % SOLUTION    |  |                          |              |            |             |       |  |  |  |
| Produc                 | t code:             | PK               | (08-OT-X**                       | Date o   | f compilation:           | 21 Dec 2     | 2022       | Version:    | 4     |  |  |  |
| Water-a                | air No<br>ava       | ilable           | information                      | No information available                                     | No informatior available |              |            | -           |       |  |  |  |
| Soil-air               | No<br>ava           | ilable           | information                      | formation<br>ble   | -                        |              |            |             |       |  |  |  |
| 12.5.                  |                     |                  | and vPvB asse                    |  |                          |              |            |             |       |  |  |  |
| 12.3.                  | The sub<br>accordir | stance<br>g to R | /mixture does<br>REACH Article 5 | not contain comp<br>7(f) or Commissio<br>levels of 0.1% or h | n Delegated regu         |              |            |             |       |  |  |  |
| 12.6.                  | Endocri             | ne disr          | upting propert                   | ies  |                          |              |            |             |       |  |  |  |
|                        | accordir            | g to R           | REACH Article 5                  | not contain comp<br>7(f) or Commissio<br>levels of 0.1% or h | n Delegated regu         |              |            |             | •     |  |  |  |
| 12.7.                  | Other a             | lverse           | effects                          |  |                          |              |            |             |       |  |  |  |
|                        | No info             | matio            | n available                      |  |                          |              |            |             |       |  |  |  |
|                        |                     |                  |                                  |  |                          |              |            |             |       |  |  |  |
| <b>SECTIO</b><br>13.1. |                     |                  | L CONSIDERA                      | TIONS  |                          |              |            |             |       |  |  |  |
| 15.1.                  | vvasie              | lleall           | nent methous                     |  |                          |              |            |             |       |  |  |  |
| 13.1.1.                | Produ               | ct/Pac           | kaging disposa                   | l:   |                          |              |            |             |       |  |  |  |
|                        | Subm<br>Protec      |                  | lisposal to the l                | egal person authc  | prized by the Min        | istry of Env | vironmenta | al and Natu | re    |  |  |  |
| 13.1.2.                | Waste               | codes            | s/waste designa                  | ations according to  | o Law:                   |              |            |             |       |  |  |  |
|                        | No inf              | ormat            | ion available                    |  |                          |              |            |             |       |  |  |  |
| 13.1.3.                | \\/aste             | troatr           | nent – relevant                  | information:   |                          |              |            |             |       |  |  |  |
| 15.1.5.                |                     |                  | ion available                    |  |                          |              |            |             |       |  |  |  |
|                        |                     |                  |                                  |  |                          |              |            |             |       |  |  |  |
| 13.1.4.                | Sewag               | e disp           | osal – relevant                  | information:   |                          |              |            |             |       |  |  |  |
|                        | Waste               | must             | not be dispose                   | d of into the sewa   | ige system.              |              |            |             |       |  |  |  |
| 13.1.5.                | Other               | dispos           | sal recommend                    | ations:  |                          |              |            |             |       |  |  |  |
|                        | 1                   |                  |                                  |  |                          |              |            |             |       |  |  |  |



Page 14 of 16

| Trading name: |             | PERIODIC ACID, 0.8   | % SOLUTION  |            |
|---------------|-------------|----------------------|-------------|------------|
| Product code: | PK08-OT-X** | Date of compilation: | 21 Dec 2022 | Version: 4 |

|         | Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. |                                       |  |  |  |  |  |
|---------|---|---------------------------------------|--|--|--|--|--|
| 13.1.6. | Relevant Community pro  | ovisions:                             |  |  |  |  |  |
|         | -   |                                       |  |  |  |  |  |
|         |   |                                       |  |  |  |  |  |
| SECTIO  | N 14 TRANSPORT INFOR  | MATION                                |  |  |  |  |  |
|         | Transporting/shipment by  | road (ADR)                            |  |  |  |  |  |
| UN num  | ıber:   | Not subject to transport regulations. |  |  |  |  |  |
| UN prop | per shipping name:  | -                                     |  |  |  |  |  |
| Transpo | ort hazard class(es):   | -                                     |  |  |  |  |  |
| Packing | group:  | -                                     |  |  |  |  |  |
| Environ | mentally hazardous:   | -                                     |  |  |  |  |  |
| Special | precautions for user:   | -                                     |  |  |  |  |  |
|         | Transporting/shipment by  | rail (RID)                            |  |  |  |  |  |
| UN num  | ıber:   | Not subject to transport regulations. |  |  |  |  |  |
| UN prop | per shipping name:  | -                                     |  |  |  |  |  |
| Transpo | ort hazard class(es):   | -                                     |  |  |  |  |  |
| Packing | group:  | -                                     |  |  |  |  |  |
| Environ | mentally hazardous:   | -                                     |  |  |  |  |  |
| Special | precautions for user:   | -                                     |  |  |  |  |  |
|         | Inland waterway transport   | (ADN)                                 |  |  |  |  |  |
| UN num  | ıber:   | Not subject to transport regulations. |  |  |  |  |  |
| UN prop | per shipping name:  | -                                     |  |  |  |  |  |
| Transpo | ort hazard class(es):   | -                                     |  |  |  |  |  |
| Packing | group:  | -                                     |  |  |  |  |  |
| Environ | mentally hazardous:   | -                                     |  |  |  |  |  |
| Special | precautions for user:   | -                                     |  |  |  |  |  |
|         | Transporting/shipment by  | sea (IMDG)                            |  |  |  |  |  |
| UN num  | ıber:   | Not subject to transport regulations. |  |  |  |  |  |
| UN prop | per shipping name:  | -                                     |  |  |  |  |  |
| Transpo | ort hazard class(es):   | -                                     |  |  |  |  |  |
| Packing | group:  | -                                     |  |  |  |  |  |
| Environ | mentally hazardous:   | -                                     |  |  |  |  |  |
| Special | precautions for user:   | -                                     |  |  |  |  |  |



Page 15 of 16

| Trading name: | PERIODIC ACID, 0.8 % SOLUTION |                      |             |            |  |  |  |
|---------------|-------------------------------|----------------------|-------------|------------|--|--|--|
| Product code: | PK08-OT-X**                   | Date of compilation: | 21 Dec 2022 | Version: 4 |  |  |  |

| Transporting/shipment by air (ICAO-TI/IATA-DGR) |                                       |  |  |  |  |  |
|---|---------------------------------------|--|--|--|--|--|
| UN number:                                      | Not subject to transport regulations. |  |  |  |  |  |
| UN proper shipping name:                        | -                                     |  |  |  |  |  |
| Transport hazard class(es):                     | -                                     |  |  |  |  |  |
| Packing group:                                  | -                                     |  |  |  |  |  |
| Environmentally hazardous:                      | -                                     |  |  |  |  |  |
| Special precautions for user:                   | -                                     |  |  |  |  |  |
|   |                                       |  |  |  |  |  |
| Further information: -                          |                                       |  |  |  |  |  |

| EU regulations            |  |
|---------------------------|--|
| Lo regulations            |  |
| Authorization and/or rest | rictions of use  |
| Authorizations:           | _  |
| Restrictions:             | -  |
| Other EU regulations:     | <ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;</li> <li>Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16</li> </ul> |
|                           | December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;   |
|                           | REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);  |
|                           | Authorizations:<br>Restrictions:   |



Page 16 of 16

| Trading name:         | PERIODIC ACID, 0.8 % SOLUTION |  |   |  |                |  |
|-----------------------|-------------------------------|--|---|--|----------------|--|
| Product code:         | PK08-OT-X**                   | Date of compilation:   | 21 Dec 2022   | Version:   | 4              |  |
| National legislation: |                               | Chemicals Act, Regulation on class<br>dangerous substances, Ordinance<br>and on biological limit values, Reg<br>classification of waste with a waste<br>Ordinance on writing Material safe<br>Substances Act | on occupational ex<br>ulation on categor<br>catalog and list of | xposure limit v<br>ies, types and<br>f hazardous w | alues<br>aste, |  |

| 15.2. | Chemical safety assessment |
|-------|----------------------------|
|       | None                       |

| SECTIO    | ECTION 16 Other information                    |  |  |  |  |  |
|-----------|--|--|--|--|--|--|
| 16.1.     | Indication of changes:                         | -  |  |  |  |  |
| 16.2.     | Abbreviations and acronyms:                    | <ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul> |  |  |  |  |
| 16.3.     | Key literature references and source of data:  | -  |  |  |  |  |
| 16.4.     | Classification and procedure u 1272/2008 (CLP) | sed to derive the classification for mixture according to Regulation (EC)  |  |  |  |  |
| Classifie | cation   | Classification procedure   |  |  |  |  |
| -         |  | -  |  |  |  |  |
| 16.5.     | Relevant H statements (numb                    | er and full text)  |  |  |  |  |
|           | H: -   | -  |  |  |  |  |
| 16.6.     | Training advice:                               | -  |  |  |  |  |
| 16.7.     | Further information:                           | <ul> <li>** "X" in the product code marks different volumes (different packagings of the product)</li> <li>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</li> </ul>  |  |  |  |  |

# ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



Page 1 of 17

| Trading name: | SODIUM METABISULFITE, SOLUTION |                |             |          |   |  |  |
|---------------|--------------------------------|----------------|-------------|----------|---|--|--|
| Product code: | NM-OT-X**                      | Revision date: | 21 Dec 2022 | Version: | 4 |  |  |

| SECTI | ON 1: Identification of t                        | he substanc     | e/mixture a   | and of the company/undertaking |  |  |
|-------|--|-----------------|---|--------------------------------|--|--|
| 1.1.  | Product identifier                               |                 |   |                                |  |  |
|       | Trading name:                                    | SODIUM N        | <b>METABISULFI</b>  | TE, SOLUTION                   |  |  |
|       | Chemical name:                                   | -               | -   |                                |  |  |
|       | Catalogue number:                                | NM-OT-X*        | **  |                                |  |  |
| 1.2.  | Relevant identified use                          | es of the sub   | stance or mi  | xture and uses advised against |  |  |
|       | Uses:  |                 | For use w   | ith special staining kits.     |  |  |
|       | Uses advised against:                            |                 | Only the i  | dentified uses are advised.    |  |  |
|       | Reason why uses advised against:                 |                 | The product is intended for use only as an <i>in vitro</i> diagnostic<br>medical device, registered at the Agency for Medicinal Products and<br>Medical Devices and there is no reason to use it for other purposes |                                |  |  |
| 1.3.  | Details of the supplier of the safety data sheet |                 |   |                                |  |  |
|       | Supplier: Bio                                    |                 | lioGnost Ltd.   |                                |  |  |
|       | Address:   | N               | Medjugorska 59, Zagreb  |                                |  |  |
|       | Telephone number:                                | +               | 385 1 2409997   |                                |  |  |
|       | Fax no.:   | +               | 385 1 2404039   |                                |  |  |
|       | e-mail of competent p                            | erson: <u>r</u> | msds@biognost.hr  |                                |  |  |
|       | National contact:                                | -               |   |                                |  |  |
| 1.4.  | Emergency telephone                              | number          |   |                                |  |  |
|       | National Protection an                           | d Rescue Di     | rectorate:  | 112                            |  |  |
|       | Medical information:                             |                 |   | +385 1 2348 342                |  |  |
|       | Other information:                               |                 |   | -                              |  |  |

| SECTIO    | SECTION 2. Hazards identification  |                       |                     |  |  |  |  |
|-----------|------------------------------------|-----------------------|---------------------|--|--|--|--|
| 2.1.      | Classification of the substance or | · mixture             |                     |  |  |  |  |
| 2.1.1.    | Classification according to Regula | ation (EC) No 1272/20 | 08 (CLP)            |  |  |  |  |
|           | Hazard class and cated             | gory code:            | Hazard statements*: |  |  |  |  |
|           | Eye Irr. 2 H319                    |                       |                     |  |  |  |  |
| 2.1.2.    | Additional information             |                       |                     |  |  |  |  |
|           | -                                  |                       |                     |  |  |  |  |
| *For full | text of Hazard- and EU Hazard-sta  | atements: see Section | 16                  |  |  |  |  |
| 2.2.      | Label elements                     |                       |                     |  |  |  |  |
|           | Product identification:            | SODIUM METABISUL      | FITE, SOLUTION      |  |  |  |  |
|           | Identification number: -           |                       |                     |  |  |  |  |
|           | Authorization no.:                 | -                     |                     |  |  |  |  |



Page 2 of 17

| Trading name: | SODIUM METABISULFITE, SOLUTION |                |             |          |   |  |  |  |
|---------------|--------------------------------|----------------|-------------|----------|---|--|--|--|
| Product code: | NM-OT-X**                      | Revision date: | 21 Dec 2022 | Version: | 4 |  |  |  |

|      | Hazard pictograms:  | GHS07  |
|------|---|--|
|      | Signal word:  | Warning  |
|      | Hazard statements:  | H319 Causes serious eye irritation.  |
|      | Precautionary statements:   | <ul> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</li> <li>P308+P313 IF exposed or concerned: Immediately call a POISON CENTER or physician.</li> </ul> |
|      | Supplemetal hazard information (EU):  | -  |
| 2.3. | Other hazards   |  |
|      | <b>Endocrine Disrupting Proper</b><br>No known endocrine disruptin<br><b>Results of PBT and vPvB asse</b><br>PBT or a vPvB. |  |

| SECTION 3. Co                            | SECTION 3. Composition/information on ingredients |                                |                         |   |  |  |  |  |
|--|---|--------------------------------|-------------------------|---|--|--|--|--|
| CAS/<br>EC/<br>Index no.                 | REACH<br>Registration No                          | Weight % content<br>(or range) | Identification<br>name  | Classification according to Regulation<br>(EC) No 1272/2008 (CLP) |  |  |  |  |
| 7681-57-4/<br>231-673-0/<br>016-063-00-2 | -   | < 10 %                         | sodium<br>metabisulfite | Acute Tox. 4, H302<br>Eye Dam. 1; H318<br>EUH031                  |  |  |  |  |

| SECTI | SECTION 4. First aid measures  |  |  |  |  |  |  |
|-------|--------------------------------|--|--|--|--|--|--|
| 4.1.  | Description of first aid measu | ires   |  |  |  |  |  |
|       | General notes:                 | Take off contaminated clothing.  |  |  |  |  |  |
|       | Following inhalation:          | Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.   |  |  |  |  |  |
|       | Following skin contact:        | Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.  |  |  |  |  |  |
|       | Following eye contact:         | In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. |  |  |  |  |  |



Page 3 of 17

| Trading name: | SODIUM METABISULFITE, SOLUTION |                |             |          |   |  |  |
|---------------|--------------------------------|----------------|-------------|----------|---|--|--|
| Product code: | NM-OT-X**                      | Revision date: | 21 Dec 2022 | Version: | 4 |  |  |

|      | Following ingestion:                |      | Rinse mouth. Call a doctor if you feel unwell. |  |  |
|------|-------------------------------------|------|--|--|--|
|      | Self-protection of the first aider: |      | Treat symptomatically.                         |  |  |
| 4.2. | Most important symptoms and e       |      | fects, both acute and delayed                  |  |  |
|      | Following inhalation: No i          |      | information available                          |  |  |
|      | Following skin contact: No          |      | o information available                        |  |  |
|      | Following eye contact: Risk         |      | of blindness, Risk of serious damage to eyes.  |  |  |
|      | Following ingestion:                | No i | No information available                       |  |  |
| 4.3. | Indication of any immediate med     |      | ical attention and special treatment needed    |  |  |
|      | -                                   |      |  |  |  |

| SECTIC | ON 5. Firefighting measures   |   |  |  |
|--------|---|---|--|--|
| 5.1.   | Extinguishing media   |   |  |  |
|        | Suitable extinguishing media:   | Small fire - water spray, dry powder, foam, CO <sub>2</sub><br>Large fire - water spray or alcohol-resistant foam |  |  |
|        | Unsuitable extinguishing media:   | water jet   |  |  |
| 5.2.   | Special hazards arising from the substance or mixture   |   |  |  |
|        | Hazardous combustion products:  | No information available  |  |  |
| 5.3.   | Advice for firefighters   |   |  |  |
|        | Do not enter fire area without proper protective equipment, including respiratory protection. |   |  |  |
| 5.4.   | Additional information  |   |  |  |
|        | Remove sources of heat and ignit<br>Do not contaminate the environm                           |   |  |  |

| SECTIO | CTION 6. Accidental release measures  |  |  |  |  |  |
|--------|---|--|--|--|--|--|
| 6.1.   | Personal precautions, protective equipment and emergency procedures   |  |  |  |  |  |
| 6.1.1. | For non-emergency personnel   |  |  |  |  |  |
|        | Protective equipment: Use personal protective equipment (see Section 8).  |  |  |  |  |  |
|        | Accident prevention methods: Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke. |  |  |  |  |  |
|        | Emergency procedures:   | Emergency procedures: Mark the area using proper signs.                                |  |  |  |  |
| 6.1.2. | For emergency responders:   |  |  |  |  |  |
|        | Do not enter fire area without proper protective equipment, including respiratory protection.   |  |  |  |  |  |
| 6.2.   | Environmental precautions:  |  |  |  |  |  |
|        | Do not dispose of in sewage, drain<br>Protection and Rescue Directorate   | age system and waterways. In case of large spillage contact National<br>(NPRD) on 112. |  |  |  |  |



Page 4 of 17

| Trading name: | SODIUM METABISULFITE, SOLUTION |                |             |          |   |  |
|---------------|--------------------------------|----------------|-------------|----------|---|--|
| Product code: | NM-OT-X**                      | Revision date: | 21 Dec 2022 | Version: | 4 |  |

| 6.3.   | Methods and material for containment and cleaning up               |   |  |  |  |  |  |
|--------|--|---|--|--|--|--|--|
| 6.3.1. | Bunding, covering of drains; capping procedures:                   | Covering of drains. Take up mechanically.   |  |  |  |  |  |
| 6.3.2. | Cleaning up:   | Soak up spills with inert solids, such as clay or diatomaceous earth as soon<br>as possible. On land, sweep or shovel into suitable containers. Submit for<br>disposal to the legal persons authorized by the Ministry of Environmental<br>and Nature Protection. After disposal of the products, wash the area and<br>and involved materials with water. |  |  |  |  |  |
| 6.3.3. | Other information:   | Place in appropriate containers for disposal.   |  |  |  |  |  |
| 6.4.   | Reference to other sections  |   |  |  |  |  |  |
|        | See Section 7 for information about secure handling.               |   |  |  |  |  |  |
|        | See Section 8 for information about personal protective equipment. |   |  |  |  |  |  |
|        | See Section 13 for informatic                                      | See Section 13 for information about containment.   |  |  |  |  |  |

| SECTIC | N 7. Handling and storage  |  |  |  |  |  |
|--------|--|--|--|--|--|--|
| 7.1.   | Precautions for safe handling  |  |  |  |  |  |
| 7.1.1. | Protection measures  |  |  |  |  |  |
|        | Measures to prevent fire:  |  | Keep away from sources of heat and ignition. Do not smoke.   |  |  |  |
|        | Measures to prevent aerosol and dust generat   | ion:   | Secure proper ventilation.   |  |  |  |
|        | Measures to protect the environment:   |  | Prevent spilling into the sewage system and waterways.   |  |  |  |
|        | Other measures:  |  | -  |  |  |  |
| 7.1.2. | Advice on general occupational hygiene:  |  |  |  |  |  |
|        | Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating. |  |  |  |  |  |
| 7.2.   | Conditions for safe storage, including any inco  | mpatibili  | ties   |  |  |  |
|        | Technical measures and storage conditions:   | •  | tightly closed and upright set containers in a well<br>red place.  |  |  |  |
|        | Packaging materials:   | Manufa   | acturer's original packaging.  |  |  |  |
|        | Requirements for storage rooms and vessels:  | quirements for storage rooms and vessels: Keep away tightly clo  |  |  |  |  |
|        | Advices for storage equipment:   | Advices for storage equipment:<br>Advices for storage equipment: |  |  |  |  |
|        | Further information on storage conditions:   | and do   | place the unused material in the storage room<br>not use empty containers for storing other<br>als. Do not store with incompatible materials (see<br>9). |  |  |  |



Page 5 of 17

| Trading name: | SODIUM METABISULFITE, SOLUTION |                |             |          |   |  |
|---------------|--------------------------------|----------------|-------------|----------|---|--|
| Product code: | NM-OT-X**                      | Revision date: | 21 Dec 2022 | Version: | 4 |  |

| 7.3. | Specific end use(s)                   |   |
|------|---------------------------------------|---|
|      | Recommendations:                      | - |
|      | Industrial sector specific solutions: | - |

| SECTION 8. Exposure controls/personal protection |          |          |                          |   |            |                          |         |                         |       |                      |
|--|----------|----------|--------------------------|---|------------|--------------------------|---------|-------------------------|-------|----------------------|
| 8.1. Contro                                      | ol para  | ameters  |                          |   |            |                          |         |                         |       |                      |
| Substance  |          |          |                          | cupational exposure limit<br>values/short term values |            |                          | E       | Biological limit values |       |                      |
|  |          |          |                          |   |            | ppm                      |         | mg/m³                   |       |                      |
| -  |          |          | -                        |   |            | -                        |         | -                       | No ir | nformation available |
|  |          |          |                          |   |            |                          |         |                         |       |                      |
| Substance<br>name:                               | -        |          |                          |   |            |                          |         |                         |       |                      |
| EC No:   | -        |          | CAS No:                  | -   |            |                          |         |                         |       |                      |
| DNEL   |          |          |                          |   |            |                          |         |                         |       |                      |
|  |          |          |                          |   | Inc        | dustrial                 |         |                         |       |                      |
| Route of   |          | A        | Acute                    |   | Acute      | 9                        |         | Chronic                 |       | Chronic              |
| exposure:  |          | effe     | ect local                | ef  | fect syst  | temic                    |         | effect local            |       | effect systemic      |
| Oral   |          | -        |                          | -   |            |                          | -       |                         |       | -                    |
| Inhalation                                       |          | -        |                          | -   |            |                          | -       |                         |       | -                    |
| Dermal   |          | -        |                          | -   |            |                          | -       |                         |       | -                    |
| Critical physical                                | l parar  | neters:  | solubility, fla          | mmab  | ility, cor | rrosivity:               |         | -                       |       |                      |
|  |          |          |                          |   | Co         | nsumer                   | T       |                         |       |                      |
| Route of   |          | A        | Acute                    |   | Acute      |                          | Chronic |                         |       | Chronic              |
| exposure:  |          | effe     | ect local effect s       |   | fect syst  | temic                    |         | effect local            |       | effect systemic      |
| Oral   |          | -        |                          | -   |            |                          | -       |                         |       | -                    |
| Inhalation                                       |          | -        |                          | -   |            |                          | -       |                         |       | -                    |
| Dermal   |          | -        |                          | -   |            |                          | -       |                         |       | -                    |
| PNEC   |          |          |                          |   |            | 1                        |         |                         |       |                      |
| Environmental                                    | protec   | tion tar | get                      |   |            | PNEC                     |         |                         |       |                      |
| Fresh water                                      |          |          | No information available |   |            |                          |         |                         |       |                      |
| Freshwater sediments                             |          |          |                          | No information available                              |            |                          |         |                         |       |                      |
| Marine water                                     |          |          |                          | No info   | rmatio     | on available             |         |                         |       |                      |
| Marine sediments                                 |          |          |                          | No information available                              |            |                          |         |                         |       |                      |
| Food chain                                       |          |          |                          |   |            | No information available |         |                         |       |                      |
| Microorganism                                    | is in se | wage tr  | eatment                  |   |            | No information available |         |                         |       |                      |



Page 6 of 17

| Trading name: |           | SODIUM METAB   | SISULFITE, SOLUTION |          |   |  |
|---------------|-----------|----------------|---------------------|----------|---|--|
| Product code: | NM-OT-X** | Revision date: | 21 Dec 2022         | Version: | 4 |  |
|               |           |                |                     |          |   |  |

| Soil (agric | cultural)  |                               | No information available  |  |  |  |
|-------------|--|-------------------------------|---|--|--|--|
| Air         |  |                               | No information available  |  |  |  |
|             |  |                               |   |  |  |  |
| 8.2.        | Exposure controls  |                               |   |  |  |  |
| 8.2.1.      | Engineering measures   |                               |   |  |  |  |
|             | Substance/mixture related<br>measures to prevent expo<br>during identified uses: |                               | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.   |  |  |  |
|             | Structural measures to pr exposure:  | event                         | No information available  |  |  |  |
|             | Organisational measures prevent exposure:  | to                            | Organization of work in order to reduce other worker's influence during work process.   |  |  |  |
|             | Technical measures to pre<br>exposure:   | event                         | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.  |  |  |  |
| 8.2.2.      | Personal protection equip  | Personal protection equipment |   |  |  |  |
| 8.2.2.1.    | Eye and face protection:   |                               | Safety glasses that stick to face (preventing splashing) (EN 166) or visor.   |  |  |  |
| 8.2.2.2.    | Skin protection  |                               |   |  |  |  |
|             | Chem<br>374.<br>Hand protection:   |                               | emical protection gloves are suitable, which are tested according to EN<br>4.<br>Glove material: nitrile rubber<br>Glove thickness: > 0.11 mm<br>Break through time: >480 min |  |  |  |
|             | Other skin protection:   |                               | r antistatic clothing made of natural fibers (such as cotton) with long<br>/es (EN 13034), and shoes that cover the entire foot (EN 10335).                                   |  |  |  |
| 8.2.2.3.    | Respiratory protection:  | In cas                        | se of inadequate ventilation wear respiratory protection.   |  |  |  |
| 8.2.2.4.    | Thermal hazards:   | No in                         | nformation available  |  |  |  |
| 8.2.3.      | Environmental exposure of  | controls                      | S   |  |  |  |
|             | Substance/mixture related measures to prevent expo                               |                               | See Section 6   |  |  |  |
|             | Structural measures to pr exposure:  | event                         | Use modern equipment.   |  |  |  |
|             | Organisational measures prevent exposure:  | to                            | Adapt the work process to the required working conditions of the workplace. Keep away from drains, surface and ground water.  |  |  |  |
|             | Technical measures to pre<br>exposure:   | event                         | See Section 6   |  |  |  |

| SECTIO | SECTION 9. Physical and chemical properties           |  |  |  |  |
|--------|---|--|--|--|--|
| 9.1.   | Information on basic physical and chemical properties |  |  |  |  |



Page 7 of 17

| Trading name: | 1         | SODIUM METAB   | ISULFITE, SOLUTION |          |   |
|---------------|-----------|----------------|--------------------|----------|---|
| Product code: | NM-OT-X** | Revision date: | 21 Dec 2022        | Version: | 4 |

|    |   | Value   | Method                   |
|----|---|---|--------------------------|
|    | Physical state:   | liquid  | No information available |
|    | Color:  | colourless  | No information available |
|    | Odour/odour threshold:                                    | No information avaialble/no information available | No information available |
|    | Melting point / freezing point:                           | No information available                          | No information available |
|    | Boiling point or initial boiling point and boiling range: | No information available                          | No information available |
|    | Flammability:   | No information available                          | No information available |
|    | Lover and upper explosion limit:                          | No information available                          | No information available |
|    | Flash point:  | No information available                          | No information available |
|    | Auto-ignition temperature:                                | No information available                          | No information available |
|    | Decomposition temperature:                                | No information available                          | No information available |
|    | pH:   | No information available                          | No information available |
|    | Kinematic viscosity:                                      | No information available                          | No information available |
|    | Solubility:   | No information available                          | No information available |
|    | Partition coefficient n-octanol/water (log value):        | No information available                          | No information available |
|    | Vapour pressure:  | No information available                          | No information available |
|    | Density and/or relative density                           | No information available                          | No information available |
|    | Relative vapour density:                                  | No information available                          | No information available |
|    | Particle characteristics:                                 | No information available                          | No information available |
| 2. | Other information   |   |                          |

| SECTIO | CTION 10.: Stability and reactivity |  |  |  |  |  |  |
|--------|-------------------------------------|--|--|--|--|--|--|
| 10.1.  | Reactivity:                         | See subsections 10.3 through 10.5.   |  |  |  |  |  |
| 10.2.  | Chemical stability:                 | The product is chemically stable under standard ambient conditions of storing and using. |  |  |  |  |  |
| 10.3.  | Possibility of hazardous reactions: | No information available.  |  |  |  |  |  |
| 10.4.  | Conditions to avoid:                | No information available.  |  |  |  |  |  |
| 10.5.  | Incompatible materials:             | No information available.  |  |  |  |  |  |
| 10.6.  | Hazardous decomposition products:   | No information available.  |  |  |  |  |  |

 SECTION 11. Toxicological information

 11.1.
 Information on hazard classes as defined in Regulation (EC) No 1272/2008



Page 8 of 17

| Trading name: | S         | ODIUM METABISULFITE, SOLUTION |             |          |   |  |  |  |
|---------------|-----------|-------------------------------|-------------|----------|---|--|--|--|
| Product code: | NM-OT-X** | Revision date:                | 21 Dec 2022 | Version: | 4 |  |  |  |

| Acute toxi                               | city:                    |                       |                          |   |              |          |                   |
|--|--------------------------|-----------------------|--------------------------|---|--------------|----------|-------------------|
| Route of<br>exposure:                    |                          | Method                | Species                  | Effective<br>dose<br>LD <sub>50</sub> /LC <sub>50</sub><br>or<br>ATE <sub>mixture</sub> | Expos<br>tim |          | Results           |
| Oral exposure:                           |                          | information<br>ilable | _                        | LD <sub>50</sub>  | -            |          | -                 |
| Dermal exposure:                         |                          | information<br>ilable | -                        | LD <sub>50</sub>  | -            |          | -                 |
| Inhalation<br>exposure:                  |                          | information<br>ilable | -                        | LC <sub>50</sub>  | -            |          | -                 |
| Specific ta                              | irget                    | organ toxicity – sing | le exposure (STO)        | SE):  |              |          |                   |
|  |                          | Specific              | c effects                | Targ  | et organ     |          | Note              |
| Oral exposure:                           |                          | No information ava    | ailable                  | No information available  |              | -        |                   |
| Dermal exposure:                         |                          | No information ava    | ilable                   | No information available  |              | -        |                   |
| Inhalation exposure: No information avai |                          | ilable                | No information available |   | -            |          |                   |
| Respirator                               | ry irri <sup>.</sup>     | tation:               | No information           | available   |              |          |                   |
| Irritation a                             | and c                    | orrosion              |                          |   |              |          |                   |
|  |                          | Exposure time         | Species                  | Evaluati<br>on  | Meth<br>od   |          | Note              |
| Skin irritation:                         | -                        |                       | -                        | -   | -            |          |                   |
| Eye irritation:                          | -                        |                       | -                        | -   | -            | Causes s | erious eye damage |
| Sensitizati                              | on                       |                       |                          |   |              |          |                   |
| Dermal exposure:                         | No                       | information availabl  | le                       |   |              |          |                   |
| Inhalation<br>exposure:                  | No                       | information availabl  | e                        |   |              |          |                   |
| Symptom                                  | s rela                   | ted to the physical,  | chemical and toxic       | ological chara  | acteristics  | 5        |                   |
| Oral exposure:                           | 1                        | No information avail  | able                     |   |              |          |                   |
| •  | No information available |                       |                          |   |              |          |                   |
| Dermal exposure:                         | 1                        | No information avail  | able                     |   |              |          |                   |



Page 9 of 17

| Trading name: |           | SODIUM METABISULFITE, SOLUTION |             |          |   |  |  |
|---------------|-----------|--------------------------------|-------------|----------|---|--|--|
| Product code: | NM-OT-X** | Revision date:                 | 21 Dec 2022 | Version: | 4 |  |  |

| Repeat                          | ed dose toxicity (su     | bacute, subchr                 | onic, chronic)                 |  |                          |        |         |
|---------------------------------|--------------------------|--------------------------------|--------------------------------|--|--------------------------|--------|---------|
|                                 | Dose                     | Exposure<br>time               | Species                        | Method   | Evaluatio                | า      | Note    |
| Subacute oral                   | No information available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available                       | No inforn<br>available   | nation | -       |
| Subacute<br>dermal              | No information available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available                       | No inforn<br>available   | nation | -       |
| Subacute<br>inhalation          | No information available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available                       | No inforn<br>available   | nation | -       |
| Subchronic<br>oral              | No information available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available                       | No information available |        | -       |
| Subchronic<br>dermal            | No information available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available                       | No information available |        | -       |
| Subchronic<br>inhalation        | No information available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available                       | No information available |        | -       |
| Chronic oral                    | No information available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available                       | No information available |        | -       |
| Chronic dermal                  | No information available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available                       | No information available |        | -       |
| Chronic<br>inhalation           | No information available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available                       | No inforn<br>available   | nation | -       |
|                                 |                          |                                |                                |  |                          |        |         |
| Specific                        | target organ toxici      |                                | •                              |  |                          |        | N - + - |
| Subscuts and                    | NI- :                    | Specific effect                | .S                             | Target or  | -                        |        | Note    |
| Subacute oral<br>Subacute derma |                          | ation available                |                                | No information                                       |                          | -      |         |
| Subacute derma                  |                          | ation available                |                                | No information                                       |                          | -      |         |
| Subchronic oral                 |                          | ation available                |                                |  |                          | _      |         |
| Subchronic derm                 |                          | ation available                |                                | No information available<br>No information available |                          | -      |         |



Page 10 of 17

| Trading                                 | name:                          | SODIUM METABISULFITE, SOLUTION         |                           |                            |   |  |  |  |  |  |  |
|---|--------------------------------|--|---------------------------|----------------------------|---|--|--|--|--|--|--|
| Product                                 | code:                          | NM-OT-X**                              | Revision date:            | Revision date: 21 Dec 2022 |   |  |  |  |  |  |  |
| Subchronic inhalation No information av |                                | available                              | No information available  | -                          |   |  |  |  |  |  |  |
| Chronic oral No information avail       |                                | available                              | No information available  | -                          |   |  |  |  |  |  |  |
| Chronic dermal No information ava       |                                | available                              | No information available  | -                          |   |  |  |  |  |  |  |
| Chronic                                 | inhalation                     | No informatior                         | available                 | No information available   | - |  |  |  |  |  |  |
|   |                                |  |                           |                            |   |  |  |  |  |  |  |
|   |                                |  | nutagenicity, reproductiv |                            |   |  |  |  |  |  |  |
|   | Carcinogenicity:               |  | No information av         | No information available   |   |  |  |  |  |  |  |
|   | Mutagenicity <i>in-vitro</i> : |  | No information av         | railable                   |   |  |  |  |  |  |  |
|   | Genotoxic                      | ity:                                   | No information av         | ailable                    |   |  |  |  |  |  |  |
|   | Mutagenio                      | city <i>in-vivo</i> :                  | No information av         | vailable                   |   |  |  |  |  |  |  |
|   | Germ cell                      | mutagenicity:                          | No information av         | No information available   |   |  |  |  |  |  |  |
|   | Reproduct                      | tive toxicity:                         | No information av         | No information available   |   |  |  |  |  |  |  |
|   |                                |  |                           |                            |   |  |  |  |  |  |  |
|   | Summary                        | of evaluation of the (                 | CMR properties:           | -                          |   |  |  |  |  |  |  |
|   |                                |  |                           |                            |   |  |  |  |  |  |  |
| 11.2.                                   | Informatio                     | on on other hazards:                   |                           |                            |   |  |  |  |  |  |  |
| 11.2.1.                                 | Endocrine                      | disrupting propertie                   | s:                        |                            |   |  |  |  |  |  |  |
|   | No kno<br>properties           | wn endocrine di<br>that affect human h | srupting<br>ealth.        |                            |   |  |  |  |  |  |  |
| 11.2.2.                                 | Other info                     | rmations:                              |                           |                            |   |  |  |  |  |  |  |
|   | _                              |  |                           |                            |   |  |  |  |  |  |  |

| SECTION 12. Ecologi            | SECTION 12. Ecological information |                  |                             |                             |                             |      |  |  |  |  |
|--------------------------------|------------------------------------|------------------|-----------------------------|-----------------------------|-----------------------------|------|--|--|--|--|
| 12.1. Toxicity                 |                                    |                  |                             |                             |                             |      |  |  |  |  |
| Acute (short-term)<br>toxicity | Dose                               | Exposure<br>time | Species                     | Method                      | Evaluation                  | Note |  |  |  |  |
| Fish                           | LC <sub>50</sub>                   | 96 hours         | No information available    | No information available    | No information available    | -    |  |  |  |  |
| Crustacea:                     | EC <sub>50</sub>                   | 48 hours         | No information available    | No information available    | No information available    | -    |  |  |  |  |
| Algae/aquatic<br>plants        | IC <sub>50</sub>                   | 8 days           | No information available    | No information available    | No information available    | -    |  |  |  |  |
| Microorganisms                 | LC <sub>50</sub>                   | 72 hours         | -                           | -                           | -                           | -    |  |  |  |  |
| Chronic toxicity               | Dose                               | Exposure<br>time | Species                     | Method                      | Evaluation                  | Note |  |  |  |  |
| Fish                           | LC <sub>50</sub>                   | 96 hours         | No information<br>available | No information<br>available | No information<br>available | -    |  |  |  |  |



Page 11 of 17

|                            |                  |   |           |                     |                             |                             |                                 |                             | Page 11                   | 0117 |
|----------------------------|------------------|---|-----------|---------------------|-----------------------------|-----------------------------|---------------------------------|-----------------------------|---------------------------|------|
| Trading nam                | ne:              |   |           | SOE                 | DIUM META                   | BISUL                       | FITE, SOLU                      | TION                        |                           |      |
| Product cod                | e:               | NM-OT-X   | **        | Re                  | evision date:               | 21                          | 21 Dec 2022                     |                             | Version:                  | 4    |
| Crustacea:                 |                  | EC <sub>50</sub>  | 48 hours  |                     | information<br>lable        | No information<br>available |                                 | No information<br>available |                           | _    |
| Algae/aquatic<br>plants    |                  |   | 72 hours  |                     | information<br>lable        | No ir<br>availa             | nformation<br>able              | No in<br>availa             | formation<br>ble          | -    |
| Other organis              | sms              | ms microorganisms No information No information available |           | formation<br>Ible   | -                           |                             |                                 |                             |                           |      |
| 12.2. Pers                 | istence          | and degrad  | dability  |                     |                             |                             |                                 |                             |                           |      |
| Abic                       | otic deg         | radation  |           |                     |                             |                             |                                 |                             |                           |      |
|                            | De               | gradation h   | alf-lives |                     | Method                      |                             | Εν                              | valuatio                    | 'n                        | Note |
| Marine<br>water            | No ir            | formation   | available | No inf              | formation avai              | lable                       | No informa                      | tion ava                    | ailable                   | -    |
| Fresh water                | No ir            | formation   | available | No inf              | No information available No |                             |                                 | tion av                     | ailable                   | -    |
| Air                        | No ir            | formation   | available | No inf              | No information available No |                             |                                 | No information available    |                           |      |
| Soil                       | No ir            | formation   | available | No inf              | formation avai              | lable                       | No informa                      | tion av                     | ailable                   | -    |
| Biod                       | legrada          | tion  |           |                     |                             |                             |                                 |                             |                           |      |
| % Degradatio               |                  | Time (da  | ays)      | Ν                   | 1ethod                      |                             | Evaluation                      |                             | No                        | te   |
| No informatic<br>available |                  | o info<br>railable  | ormation  | No info<br>availabl |                             | No ir<br>availa             | nformation<br>able              |                             | No informati<br>available | on   |
| 12.3. Bioa                 | iccumul          | ative poten   | tial      |                     |                             | 1                           |                                 |                             |                           |      |
| Part                       | ition co         | efficient: n-   | octanol/w |                     | Kow):                       |                             |                                 |                             | 1                         |      |
| Value                      |                  | entration   | рН        | °C                  | Method                      |                             | Evaluat                         |                             | N                         | ote  |
| -                          | No ir<br>availab | formation<br>le   | -         | -                   | - No informat<br>available  |                             | tion No informatic<br>available |                             | -                         |      |
|                            |                  |   |           |                     |                             |                             |                                 |                             |                           |      |
|                            |                  | ration facto  | r (BCF)   |                     |                             |                             |                                 |                             |                           |      |
| Bioc                       | oncent           |   |           |                     |                             |                             |                                 |                             |                           |      |
| Bioc                       | oncent           |   | cies      |                     | Method                      |                             | Evaluation                      |                             | No                        | ote  |



Page 12 of 17

| Trading name: | me: SODIUM METABISULFITE, SOLUTION |                |             |          |   |
|---------------|------------------------------------|----------------|-------------|----------|---|
| Product code: | NM-OT-X**                          | Revision date: | 21 Dec 2022 | Version: | 4 |

|   | Value                               | Dose                             | Exposure<br>time               |                  | Species                         | Meth                   | od                          | Evaluati                 | on   | Note |  |
|---|-------------------------------------|----------------------------------|--------------------------------|------------------|---------------------------------|------------------------|-----------------------------|--------------------------|------|------|--|
| Chronic toxicity on fish LC <sub>50</sub> |                                     |                                  | No<br>information<br>available |                  | No inform<br>available          | nation                 | No informat<br>available    | tion                     | -    |      |  |
|   | toxicity on<br>a ( <i>Daphnia</i> ) | EC <sub>50</sub>                 | No<br>inforr<br>availa         | nation ic        | lo<br>nformat<br>on<br>vailable | No inform<br>available | nation                      | No informat<br>available | tion | -    |  |
| 12.4.                                     | Mobility in                         | soil                             |                                |                  |                                 |                        |                             |                          |      |      |  |
|   | Known or p                          | predicted distribut              | ion in e                       | environmer       | ntal comp                       | partments:             |                             |                          |      |      |  |
|   | No information available            |                                  |                                |                  |                                 |                        |                             |                          |      |      |  |
|   | Surface tension:                    |                                  |                                |                  |                                 |                        |                             |                          |      |      |  |
|   | Value                               | °C                               |                                | Concentra        |                                 | Method                 |                             |                          | Note |      |  |
|   | No<br>information<br>available      | n No inforr<br>available         |                                |                  | No information<br>available     |                        | No information<br>available |                          |      |      |  |
|   |                                     | / desorption                     |                                |                  |                                 |                        |                             |                          |      |      |  |
| Transpo                                   | rt 🛛                                | 'D coefficient<br>nry's constant | lo                             | log Kow          |                                 | Evaporation rate       |                             | Method                   |      | ote  |  |
| Soil-wat                                  | er No<br>availat                    | information<br>ole               | No in<br>availa                | formation<br>ble |                                 |                        | No inf<br>availat           | ormation<br>ole          | -    |      |  |
| Water-a                                   | ir No<br>availat                    | information<br>ple               | No in<br>availa                | formation<br>ble | No info<br>availab              | ormation<br>le         | No inf<br>availat           | ormation .               | -    |      |  |
| Soil-air                                  | No<br>availat                       | information<br>ple               | No in<br>availa                | formation<br>ble | No info<br>availab              | ormation<br>le         | No inf<br>availat           | ormation .<br>Die        | _    |      |  |
| 12.5.                                     | Results of I                        | PBT and vPvB asse                | ssmant                         |                  |                                 |                        |                             |                          |      |      |  |
|   |                                     | ation available                  | .ssment                        |                  |                                 |                        |                             |                          |      |      |  |



# **SAFETY DATA SHEET** RIOGNOST<sup>®</sup> According to Regulation (EC) No. 1907/2006

|         |  |  |   | Page 13 of 17                 |  |  |  |
|---------|--|--|---|-------------------------------|--|--|--|
| Trading | name:  |  | SODIUM METABISULFITE, SO  | LUTION                        |  |  |  |
| Produc  | t code:  | NM-OT-X**  | Revision date: 21 Dec 2022  | Version: 4                    |  |  |  |
|         | No know  | vn endocrine disrupting                            | properties that affect the environment.   |                               |  |  |  |
| 12.7.   | Other ad   | lverse effects                                     |   |                               |  |  |  |
|         | No adve  | rse effects are expected                           | d.  |                               |  |  |  |
| SECTIO  | N 13. Disj   | posal considerations                               |   |                               |  |  |  |
| 13.1.   | Waste  | treatment methods                                  |   |                               |  |  |  |
| 13.1.1. | Product/Packaging disposal:  |  |   |                               |  |  |  |
|         | Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection. |  |   |                               |  |  |  |
| 13.1.2. | Waste  | codes/waste designatic                             | ons according to Law:   |                               |  |  |  |
|         | No info  | ormation available                                 |   |                               |  |  |  |
| 13.1.3. | Waste  | treatment – relevant in                            | formation:  |                               |  |  |  |
|         | No info  | ormation available                                 |   |                               |  |  |  |
| 13.1.4. | Sewage   | e disposal – relevant inf                          | formation:  |                               |  |  |  |
|         | Waste must not be disposed of into the sewage system.  |  |   |                               |  |  |  |
| 13.1.5. | Other o  | disposal recommendati                              | ons:  |                               |  |  |  |
|         | Do not<br>authori<br>the pac   | dispose of the product<br>zed by the ministry in a | t's remains into the sewage system. Subr<br>charge. Do not dispose of the packaging<br>is authorized by the ministry in charge. D | into the sewage system. Submi |  |  |  |

ignition may occur.

-

Relevant Community provisions: 13.1.6.

#### **SECTION 14. Transport information**

| Transporting/shipment by r  | /shipment by road (ADR)               |  |  |
|-----------------------------|---------------------------------------|--|--|
| UN number:                  | Not subject to transport regulations. |  |  |
| UN proper shipping name:    | -                                     |  |  |
| Transport hazard class(es): | -                                     |  |  |
| Packing group:              | -                                     |  |  |
| Environmentally hazardous:  | -                                     |  |  |



Page 14 of 17

| Trading name: | SODIUM METABISULFITE, SOLUTION |                |             |          |   |  |
|---------------|--------------------------------|----------------|-------------|----------|---|--|
| Product code: | NM-OT-X**                      | Revision date: | 21 Dec 2022 | Version: | 4 |  |

| Special precautions for user:       | -                                     |
|-------------------------------------|---------------------------------------|
| Transporting/shipment by rail (R    | RID)                                  |
| UN number:                          | Not subject to transport regulations. |
| UN proper shipping name:            | -                                     |
| Transport hazard class(es):         | -                                     |
| Packing group:                      | -                                     |
| Environmentally hazardous:          | -                                     |
| Special precautions for user:       | -                                     |
| Inland waterway transport (ADN      | )                                     |
| UN number:                          | Not subject to transport regulations. |
| UN proper shipping name:            | -                                     |
| Transport hazard class(es):         | -                                     |
| Packing group:                      | -                                     |
| Environmentally hazardous:          | -                                     |
| Special precautions for user:       | -                                     |
| Transporting/shipment by sea (I     | MDG)                                  |
| UN number:                          | Not subject to transport regulations. |
| UN proper shipping name:            | -                                     |
| Transport hazard class(es):         | -                                     |
| Packing group:                      | -                                     |
| Environmentally hazardous:          | -                                     |
| Special precautions for user:       | -                                     |
| Transporting/shipment by air (IC    | AO-TI/IATA-DGR)                       |
| UN number:                          | Not subject to transport regulations. |
| UN proper shipping name:            | -                                     |
| Transport hazard class(es):         | -                                     |
| Packing group:                      | -                                     |
| Environmentally hazardous:          | -                                     |
| Special precautions for user:       | -                                     |
|                                     |                                       |
| Further information: The product is | not subject to classification.        |

| SECTIC | SECTION 15. Regulatory information   |  |  |  |
|--------|--|--|--|--|
| 15.1.  | Safety, health and environmental regulations/legislation specific for the substance or mixture |  |  |  |
|        | EU regulations   |  |  |  |



Page 15 of 17

| Trading name: | SODIUM METABISULFITE, SOLUTION |                |             |          |   |
|---------------|--------------------------------|----------------|-------------|----------|---|
| Product code: | NM-OT-X**                      | Revision date: | 21 Dec 2022 | Version: | 4 |

|       | Authorization and/or rest  | trictions of use  |  |  |
|-------|--|---|--|--|
|       | Authorizations:  | -   |  |  |
|       | Restrictions:  | -   |  |  |
|       |  | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; |  |  |
|       | Other EU regulations:  | Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004<br>on the limitation of emissions of volatile organic compounds due to the use of<br>organic solvents in certain paints and varnishes and vehicle refinishing products and<br>amending Directive 1999/13/EC;  |  |  |
|       |  | Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;   |  |  |
|       |  | Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;   |  |  |
|       |  | REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);   |  |  |
|       | Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-<br>guideline) |   |  |  |
|       | National legislation:  | Chemicals Act, Regulation on classification, packaging and labeling of<br>dangerous substances, Ordinance on occupational exposure limit values<br>and on biological limit values, Regulation on categories, types and<br>classification of waste with a waste catalog and list of hazardous waste,<br>Ordinance on writing Material safety data sheet, Transport of Hazardous<br>Substances Act  |  |  |
| 15.2. | Chemical safety assessme   | ent   |  |  |
|       | None   |   |  |  |

| SECTION 16. Other information |   |
|-------------------------------|---|
| 16.1. Indication of changes:  | - |



Page 16 of 17

| Trading name: |                             |   | SODIUM METABISULFITE, SOLUTION  |  |             |            |  |
|---------------|-----------------------------|---|---|--|-------------|------------|--|
| Product code: |                             | NM-OT-X**   |   | Revision date:   | 21 Dec 2022 | Version: 4 |  |
| 16.2.         | Abbreviations and acronyms: |   |   | ADR: Accord relatif au transport international des marchandises<br>dangereuses par route (European Agreement Concerning the International<br>Carriage of Dangerous Goods by Road)<br>IMDG: International Maritime Code for Dangerous Goods<br>IATA: International Air Transport Association<br>GHS: Globally Harmonised System of Classification and Labelling of<br>Chemicals<br>EINECS: European Inventory of Existing Commercial Chemical Substances<br>CAS: Chemical Abstracts Service (division of the American Chemical<br>Society)<br>DNEL: Derived No-Effect Level (UK REACH)<br>LC50: Lethal concentration, 50 percent<br>LD50: Lethal dose, 50 percent<br>PBT: Persistent, Bioaccumulative and Toxic<br>vPvB: very Persistent and very Bioaccumulative |             |            |  |
| 16.3.         |                             | erature references an<br>e of data:   | ıd  | -  |             |            |  |
| 16.4.         |                             | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) |   |  |             |            |  |
| Classifi      | cation                      |   | Classif   | Classification procedure   |             |            |  |
| -             |                             |   | -   |  |             |            |  |
| 16.5.         | Releva                      | nt H statements (nur  | nber and  | full text)   |             |            |  |
|               | H: 3                        | 02<br>18<br>19<br>JH031   | Cause:<br>Cause:  | ul if swallowed.<br>s serious eye damag<br>s serious eye irritatic<br>ct with acids liberate   | on.         |            |  |
| 16.6.         | Trainir                     | ng advice:  | -   |  |             |            |  |
| 16.7.         | Furthe                      | er information:   | <ul> <li>** "X" in the product code marks different volumes (different packagings of the product)</li> <li>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</li> </ul> |  |             |            |  |

ANNEX: Exposure scenario resulting to Chemical safety assessment

\_