

### OIL RED O KIT

The kit contains:

Basic activation buffer Formaldehyde NB 4% Hematoxylin ML Oil Red O reagent



Page 1 of 16

| Trading name: | BASIC ACTIVATION BUFFER |                      |             |          |   |  |
|---------------|-------------------------|----------------------|-------------|----------|---|--|
| Product code: | BAP-OT-X**              | Date of compilation: | 21 Dec 2022 | Version: | 4 |  |

| SECTI | ION 1: Identification of t       | he subst   | ance/mixture a  | and of the company/undertaking |  |  |
|-------|----------------------------------|--|---|--------------------------------|--|--|
| 1.1.  | Product identifier               | Product identifier                               |   |                                |  |  |
|       | Trading name:                    | BASIC A  | ACTIVATION BU   | FFER                           |  |  |
|       | Chemical name:                   | -  |   |                                |  |  |
|       | Catalogue number:                | BAP-O1   | Γ-X**   |                                |  |  |
| 1.2.  | Relevant identified use          | es of the s                                      | substance or mi   | xture and uses advised against |  |  |
|       | Uses:                            |  | For use with  | Oil Red O kit.                 |  |  |
|       | Uses advised against:            |  | Only the ider   | ntified 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          | 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 an           | d Rescue   | Directorate:  | 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 | 272/2008 (CLP) |                     |  |  |
|          | Hazard class and category           | code:           |                | Hazard statements*: |  |  |
|          | Not identified as hazardous subst   | ance.           | -              |                     |  |  |
| 2.1.2.   | Additional information              |                 |                |                     |  |  |
|          | -                                   |                 |                |                     |  |  |
| *For ful | l text of Hazard- and EU Hazard-sta | itements: see S | ection 16      |                     |  |  |
| 2.2.     | Label elements                      |                 |                |                     |  |  |
|          | Product identification:             | BASIC ACTIV     | ATION BUFFER   |                     |  |  |
|          | Identification number:              | -               |                |                     |  |  |
|          | Authorization no.:                  | -               |                |                     |  |  |
|          | Hazard pictograms:                  | -               |                |                     |  |  |



Page 2 of 16

| Trading name: | BASIC ACTIVATION BUFFER |                      |             |            |  |  |
|---------------|-------------------------|----------------------|-------------|------------|--|--|
| Product code: | BAP-OT-X**              | Date of compilation: | 21 Dec 2022 | Version: 4 |  |  |

|      | Signal word:   | -   |  |  |
|------|--|-----|--|--|
|      | Hazard statements:   | -   |  |  |
|      | Precautionary statements:  | -   |  |  |
|      | Further information:   | -   |  |  |
| 2.3. | Other hazards  |     |  |  |
|      | Endocrine Disrupting Propertie   | 25: |  |  |
|      | No known endocrine disrupting properties   |     |  |  |
|      | <b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a 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 name                 | Classification according to<br>Regulation (EC) No 1272/2008<br>(CLP) |  |  |  |  |  |
| -                        | -   | -                              | Contains no hazardous<br>substances | -  |  |  |  |  |  |

| SECTI | ON 4. First aid measures                                    |         |  |  |
|-------|---|---------|--|--|
| 4.1.  | Description of first aid measures                           |         |  |  |
|       | General notes:  |         | -  |  |
|       | Following inhalation:                                       |         | No information available                             |  |
|       | Following skin contact:                                     |         | No information available                             |  |
|       | Following eye contact:<br>Following ingestion:              |         | No information available<br>No information available |  |
|       |   |         |  |  |
| 4.2.  | Most important symptoms and effects, both acute and delayed |         | fects, both acute and delayed                        |  |
|       | Following inhalation: No                                    |         | information available                                |  |
|       | Following skin contact:                                     | No      | information available                                |  |
|       | Following eye contact:                                      | No      | information available                                |  |
|       | Following ingestion:  | No      | information available                                |  |
| 4.3.  | Indication of any immedia                                   | te medi | cal 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 |  |  |  |  |



Page 3 of 16

| Trading name: | BASIC ACTIVATION BUFFER |                      |             |          |   |  |  |
|---------------|-------------------------|----------------------|-------------|----------|---|--|--|
| Product code: | BAP-OT-X**              | Date of compilation: | 21 Dec 2022 | Version: | 4 |  |  |

| Unsuitable extinguishing media: water jet   |
|---|
| Special hazards arising from the substance or mixture   |
| Hazardous combustion products: No information available   |
| Advice for firefighters   |
| Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.<br>Cool closed containers exposed to fire with water spray or vapor. |
| Additional information  |
| Remove sources of heat and ignition.<br>Do not contaminate the environment with extinguishing media.  |
|   |

| SECTIO | ON 6. Accidental release meas   | ures  |  |  |  |
|--------|---|---|--|--|--|
| 6.1.   | Personal precautions, protective equipment and emergency procedures   |   |  |  |  |
| 6.1.1. | For non-emergency personne  | el  |  |  |  |
|        | Protective equipment:   | l   | Use personal protective equipment (see Section 8).   |  |  |
|        | Accident prevention methods   | s: I  | 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:   | I   | Mark the area using proper signs.  |  |  |
| 6.1.2. | For emergency responders:   |   |  |  |  |
|        | Wear protective equipment (s  | see Section   | n 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 cor  | ntainment a   | and cleaning up  |  |  |
| 6.3.1. | Bunding, covering of drains; capping procedures:  | Sand or d   | 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   |   |  |  |  |
|        | See Section 7 for information<br>See Section 8 for information<br>See Section 13 for informatio   | about per   | sonal protective equipment.  |  |  |



Page 4 of 16

| Trading name: | BASIC ACTIVATION BUFFER |                      |             |            |  |
|---------------|-------------------------|----------------------|-------------|------------|--|
| Product code: | BAP-OT-X**              | Date of compilation: | 21 Dec 2022 | Version: 4 |  |

| 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 ignition. Do not smoke.   |  |  |  |  |
|        | Measures to prevent aerosol and dust generation:   | Secure proper ventilation.   |  |  |  |  |
|        | Measures to protect the environment:<br>Other measures:  | Prevent spilling into the sewage system and waterways.   |  |  |  |  |
| 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 we<br>ventilated storage rooms, and away from sources of hear<br>sunlight, and other incompatible substances.                 |  |  |  |  |
|        | 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 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)  |  |  |  |  |  |
|        | Recommendations:   | -  |  |  |  |  |
|        | Industrial sector specific solutions:  | -  |  |  |  |  |

| SECTION 8. Exposure controls/personal protection |            |   |     |                         |                          |  |  |
|--|------------|---|-----|-------------------------|--------------------------|--|--|
| 8.1. Control                                     | parameters |   |     |                         |                          |  |  |
| Substance  |            | CAS No Occupational exposure limit values/short term values |     | Biological limit values |                          |  |  |
|  |            |   | ppm | mg/m <sup>3</sup>       |                          |  |  |
| -  |            | -   | -   | -                       | No information available |  |  |
|  |            |   |     |                         |                          |  |  |
| Substance  |            |   |     |                         |                          |  |  |



Page 5 of 16

| Trading na                 | me:                          | BA  |                   |         |   | ASIC ACTIVATION BUFFER  |   |                      |               |          |
|----------------------------|------------------------------|---|-------------------|---------|---|---|---|----------------------|---------------|----------|
| Product co                 | de:                          | BAP-OT-X** D                                |                   | Date o  | f compilat  | ion:  | 21 Dec 2022                                 | Version:             | 4             |          |
|                            |                              |   | 1                 | :       | :   | •   |   | :                    | 1             | :        |
| EC No:                     | -                            |   | CAS No:           | -       |   |   |   |                      |               |          |
| DNEL                       |                              |   |                   |         |   |   |   |                      |               |          |
|                            |                              |   |                   |         | Ind   | lustrial  |   |                      |               |          |
| Route of                   |                              | ŀ   | Acute             |         | Acute   | e   |   | Chronic              | Chro          | nic      |
| exposure:                  |                              | effe  | ect local         | 6       | effect sys  | temic   |   | effect local         | effect sy     | stemic   |
| Oral                       |                              | -   |                   | -       |   |   | -   |                      | -             |          |
| Inhalation                 |                              | -   |                   | -       |   |   | -   |                      | -             |          |
| Dermal                     |                              | -   |                   | -       |   |   | -   |                      | -             |          |
| Critical phys              | sical par                    | ameters: s                                  | solubility, fla   | mmal    | bility, cor   | rosivity:   | -   |                      |               |          |
|                            |                              |   |                   |         | Сог   | nsumer  |   |                      |               |          |
| Route of                   |                              | ŀ   | Acute             |         | Acute   | e   |   | Chronic              | Chro          | nic      |
| exposure:                  |                              | effe  | ect local         | e       | effect sys  | temic   |   | effect local         | effect sy     | stemic   |
| Oral                       |                              | -   |                   | -       |   |   | -   |                      | -             |          |
| Inhalation                 |                              | -   |                   | -       |   |   | -   |                      | -             |          |
| Dermal                     |                              | -   |                   | -       |   |   | -   |                      | -             |          |
| PNEC                       |                              |   |                   |         |   |   |   |                      |               |          |
| Environmen                 | tal prot                     | ection tar                                  | get               |         |   | PNEC  |   |                      |               |          |
| Fresh water                |                              |   |                   |         |   | No inform   | nation                                      | available            |               |          |
| Freshwater s               | sedimer                      | nts   |                   |         |   | No information available  |   |                      |               |          |
| Marine wate                | er                           |   |                   |         |   | No information available  |   |                      |               |          |
| Marine sedi                | ments                        |   |                   |         |   | No information available  |   |                      |               |          |
| Food chain                 |                              |   |                   |         |   | No information available  |   |                      |               |          |
| Microorgan                 | isms in s                    | sewage tr                                   | eatment           |         |   | No information available  |   |                      |               |          |
| Soil (agricul <sup>-</sup> | tural)                       |   |                   |         |   | No inform   | nation available                            |                      |               |          |
| Air                        |                              |   |                   |         |   | No inform   | nation                                      | available            |               |          |
|                            |                              |   |                   |         |   |   |   |                      |               |          |
| 8.2.                       | Exposu                       | re contro                                   | ls                |         |   |   |   |                      |               |          |
| 8.2.1.                     | Approp                       | oriate eng                                  | ineering coi      | ntrols  |   |   |   |                      |               |          |
|                            | Substa                       | nce/mixtu                                   | ire related       |         | llco tho  | product in  | wall  | optilated rooms      | co porconal a | otoctivo |
|                            | measures to prevent exposure |   |                   |         | •   |   | ventilated rooms. U<br>drink or smoke in th | • •                  | olective      |          |
|                            | _                            | identified                                  |                   |         |   |   | • -   | -                    | • • • • •     |          |
|                            |                              | ructural measures to prevent No ir kposure: |                   |         |   | No information available  |   |                      |               |          |
|                            | -                            | sational n<br>t exposure                    | neasures to<br>e: |         | -   | anization of work in order to reduce other worker's influence ing work process. |   |                      |               |          |
|                            | Techni                       | cal measu                                   | res to preve      | nt      | Secure  | proper worl   | kspace                                      | e ventilation in ord | •             |          |
|                            | exposure: conc               |   |                   | concent | concentration levels in air below permitted levels. |   |   |                      |               |          |



Page 6 of 16

| Trading name: | BASIC ACTIVATION BUFFER |                      |             |            |  |  |  |
|---------------|-------------------------|----------------------|-------------|------------|--|--|--|
| Product code: | BAP-OT-X**              | Date of compilation: | 21 Dec 2022 | Version: 4 |  |  |  |

| 8.2.2.   | Personal protection equip                               | oment   |   |  |  |  |
|----------|---|---|---|--|--|--|
| 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   |   |   |  |  |  |
|          |   |   | ive gloves must be according to the EU Directive 2016/425/EEC and rd EN 374.  |  |  |  |
|          | Hand protection:  |   | Glove material: nitrile rubber  |  |  |  |
|          |   |   | Glove thickness: ≥0.50 mm   |  |  |  |
|          |   |   | Break through time: >480 min  |  |  |  |
|          | Other skin protection:                                  |   | Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 13034), and shoes that cover the entire foot (EN 10335). |  |  |  |
| 8.2.2.3. | Respiratory protection:                                 | Protective full face mask (EN 136) or half mask (EN 140) equipped with filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI. |   |  |  |  |
| 8.2.2.4. | Thermal hazards:  | No info   | rmation available   |  |  |  |
| 8.2.3.   | Environmental exposure controls                         |   |   |  |  |  |
|          | Substance/mixture related measures to prevent exposure: |   | See Section 6   |  |  |  |
|          | Structural measures to prevent exposure:                |   | Use modern equipment.   |  |  |  |
|          | Organisational measures prevent exposure:               | to  | Adapt the work process to the required working conditions of the workplace.   |  |  |  |
|          | Technical measures to prevent exposure:                 |   | See Section 6   |  |  |  |

| SECTION 9. Physical and chemical properties |   |                          |                          |  |  |  |
|---|---|--------------------------|--------------------------|--|--|--|
| 9.1.  | Information on basic physical and chemical properties     |                          |                          |  |  |  |
|   |   | Value                    | Method                   |  |  |  |
|   | Physical state:   | liquid                   | No information available |  |  |  |
|   | Colour:   | colorless                | 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 |  |  |  |



Particle characteristics:

Other information

9.2.

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

Page 7 of 16

No information available

|                        |                                    |                        |             | Fage / OF TO       |  |  |  |  |
|------------------------|------------------------------------|------------------------|-------------|--------------------|--|--|--|--|
| Trading name:          | BASIC ACTIVATION BUFFER            |                        |             |                    |  |  |  |  |
| Product code:          | BAP-OT-X**                         | Date of compilation:   | 21 Dec 2022 | Version: 4         |  |  |  |  |
| Decomp                 | osition temperature:               | No information availab | No info     | ormation available |  |  |  |  |
| pH:                    |                                    | No information availab |             | ormation available |  |  |  |  |
| Kinemat                | ic viscosity:                      | No information availab | ole No info | ormation available |  |  |  |  |
| Solubility             | y:                                 | No information availab | ole No info | ormation available |  |  |  |  |
| Partition<br>(log valu | coefficient n-octanol/water<br>e): | No information availab | ble No info | ormation available |  |  |  |  |
| Vapour p               | pressure:                          | No information availab | ole No info | ormation available |  |  |  |  |
| Density a              | and/or relative density:           | No information availab | ole No info | ormation available |  |  |  |  |
| Relative               | vapour density:                    | No information availab | ole No info | ormation 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:  | 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. Infor   | Information on toxicological effects |                             |         |   |                  |         |  |  |
| Acut  | e toxicity                           | y:                          |         |   |                  |         |  |  |
| Route of<br>exposure:                                       |                                      | Method                      | Species | Effective dose<br>LD <sub>50</sub> /LC <sub>50</sub> or<br>ATE <sub>mixture</sub> | Exposure<br>time | Results |  |  |
| Oral exposure:  |                                      | No information<br>available | -       | LD <sub>50</sub>  | -                | -       |  |  |
| Dermal expos  | sure:                                | No information<br>available | -       | LD <sub>50</sub>  | _                | -       |  |  |
| Inhalation<br>exposure:                                     |                                      | No information<br>available | -       | LC <sub>50</sub>  | -                | -       |  |  |
|   |                                      |                             |         |   |                  |         |  |  |
| Specific target organ toxicity – single exposure (STOT SE): |                                      |                             |         |   |                  |         |  |  |
|   |                                      | Specific e                  | ffects  | Target orga   | n                | Note    |  |  |



Page 8 of 16 Trading name: **BASIC ACTIVATION BUFFER** Product code: **BAP-OT-X\*\*** Date of compilation: 21 Dec 2022 Version: 4 Oral exposure: No information available No information available \_ Dermal exposure: No information available No information available \_ No information available Inhalation exposure: No information available \_ Respiratory irritation: No information available Irritation and corrosion Exposure time Evaluation Species Method Note Skin irritation: \_ \_ \_ \_ \_ Eye irritation: \_ \_ \_ \_ \_ Sensitization Dermal exposure: No information available Inhalation No information available exposure: Symptoms related to the physical, chemical and toxicological characteristics Oral exposure: No information available Dermal exposure: No information available Inhalation No information available exposure: Eye exposure: No information available Repeated dose toxicity (subacute, subchronic, chronic) Exposure Method **Evaluation** Dose Species Note time No No No No information No information information information informatio Subacute oral available available available available n available No No No No information No information Subacute information information informatio dermal available available available available n available No No No Subacute No information No information information information informatio available available inhalation available available n available No No No No information No information Subchronic oral information information informatio available available available available n available



Mutagenicity *in-vivo*: Germ cell mutagenicity:

Reproductive toxicity:

Summary of evaluation of the CMR properties:

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

Page 9 of 16

| Trading name: | BASIC ACTIVATION BUFFER |                      |             |            |  |
|---------------|-------------------------|----------------------|-------------|------------|--|
| Product code: | BAP-OT-X**              | Date of compilation: | 21 Dec 2022 | Version: 4 |  |

| Subchronic<br>dermal  | No information available | No<br>information<br>available | No<br>information<br>available | No<br>informatio<br>n available | No information<br>available | - |
|-----------------------|--------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------|---|
| Subchronic inhalation | No information available | No<br>information<br>available | No<br>information<br>available | No<br>informatio<br>n available | No information<br>available | - |
| Chronic oral          | No information available | No<br>information<br>available | No<br>information<br>available | No<br>informatio<br>n available | No information<br>available | - |
| Chronic dermal        | No information available | No<br>information<br>available | No<br>information<br>available | No<br>informatio<br>n available | No information<br>available | - |
| Chronic<br>inhalation | No information available | No<br>information<br>available | No<br>information<br>available | No<br>informatio<br>n available | No information available    | - |

| Specific target organ toxicity – repeated exposure (STOT RE): |                          |                          |                          |      |  |  |
|---|--------------------------|--------------------------|--------------------------|------|--|--|
|   | Specific e               | effects                  | Target organ             | Note |  |  |
| Subacute oral   | No information a         | available                | No information available | -    |  |  |
| Subacute dermal   | No information a         | available                | No information available | -    |  |  |
| Subacute inhalation   | No information a         | available                | No information available | -    |  |  |
| Subchronic oral   | No information a         | available                | No information available | -    |  |  |
| Subchronic dermal   | No information available |                          | No information available | -    |  |  |
| Subchronic inhalation   | No information available |                          | No information available | -    |  |  |
| Chronic oral  | No information available |                          | No information available | -    |  |  |
| Chronic dermal  | No information available |                          | No information available | -    |  |  |
| Chronic inhalation  | No information available |                          | No information available | -    |  |  |
|   |                          |                          |                          |      |  |  |
| CMR effects (ca   | arcinogenicity, mut      | tagenicity, repi         | roductive toxicity)      |      |  |  |
| Carcinogenicity   | Carcinogenicity: No      |                          | No information available |      |  |  |
| Mutagenicity ir   | Mutagenicity in-vitro:   |                          | No information available |      |  |  |
| Genotoxicity:   |                          | No information available |                          |      |  |  |

No information available No information available

No information available

No information available

-



Page 10 of 16

| Trading name: |            | BASIC ACTIVATIO      | N BUFFER    |            |
|---------------|------------|----------------------|-------------|------------|
| Product code: | BAP-OT-X** | Date of compilation: | 21 Dec 2022 | Version: 4 |

| 11.2    | Information on other hazards:  |  |  |  |  |  |
|---------|--|--|--|--|--|--|
| 11.2.1. | Endocrine disrupting properties:   |  |  |  |  |  |
|         | 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 informations:  |  |  |  |  |  |
|         | -  |  |  |  |  |  |

| 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 | -          | -    |
| Crustacea:              | EC <sub>50</sub> | 48 hours         | No information<br>available | No<br>information<br>available | -          | -    |
| Algae/aquatic<br>plants | IC <sub>50</sub> | 8 days           | No information<br>available | No<br>information<br>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 available    | No<br>information<br>available | -          | -    |
| Crustacea:              | EC <sub>50</sub> | 48 hours         | No information available    | No<br>information<br>available | -          | -    |
| Algae/aquatic<br>plants | IC <sub>50</sub> | 72 hours         | No information available    | No<br>information<br>available | -          | -    |
| Other organisms         | -                | -                | -                           | -                              | -          | -    |



Chronic toxicity on

 $\mathsf{EC}_{50}$ 

No

No

No

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

Page 11 of 16

No information

-

|                            |                 |               |                      |       |                        |                                |            |                           |                       | rage                  |       |  |
|----------------------------|-----------------|---------------|----------------------|-------|------------------------|--------------------------------|------------|---------------------------|-----------------------|-----------------------|-------|--|
| Trading nam                | ie:             |               | BASIC ACTIV          |       |                        |                                |            | ATION BUFFER              |                       |                       |       |  |
| Product cod                | ode: BAP-OT-X** |               |                      |       | Date                   | Date of compilation:           |            |                           | 2022                  | Versic                | on: 4 |  |
| i                          |                 |               |                      |       |                        |                                |            |                           |                       |                       |       |  |
| Abio                       | tic de          | gradatic      | on                   |       |                        |                                |            |                           |                       |                       |       |  |
|                            | D               | egradat       | ion half-l           | ives  |                        | Method                         |            |                           | Evaluatior            | า                     | Note  |  |
| Marine<br>water            | No              | informa       | nformation available |       | No info                | rmation availab                | le         | No inform                 | ation ava             | ilable                | -     |  |
| Fresh water                | No              | informa       | tion avail           | able  | No info                | rmation availab                | le         | No inform                 | ation ava             | ilable                | -     |  |
| Air                        | No              | informa       | tion avail           | able  | No info                | rmation availab                | le         | No inform                 | ation ava             | ilable                | -     |  |
| Soil                       | No              | informa       | tion avail           | able  | No info                | rmation availab                | le         | No inform                 | ation ava             | ilable                | -     |  |
|                            |                 |               |                      |       | 2                      |                                |            |                           |                       |                       | I     |  |
| Biode                      | egrad           | ation         |                      |       |                        |                                |            |                           |                       |                       |       |  |
| % Degradatio               | on              | Tim           | ne (days)            |       | М                      | lethod                         |            | Evaluatio                 | n                     | Ν                     | lote  |  |
| No informatic              | n ľ             | No            | informa              | tion  | No inforn              | nation                         | No         | o informatio              | on N                  | lo informa            | ation |  |
| available                  | ā               | available     | 2                    |       | available              |                                | ava        | ailable                   | а                     | ivailable             |       |  |
|                            |                 |               |                      |       |                        |                                |            |                           |                       |                       |       |  |
|                            |                 |               |                      |       |                        |                                |            |                           |                       |                       |       |  |
|                            |                 |               |                      |       |                        |                                |            |                           |                       |                       |       |  |
| 12.3. Bioad                | cumu            | ılative p     | otential             |       |                        |                                |            |                           |                       |                       |       |  |
| Partit                     | tion c          | oefficier     | nt: n-octa           | nol/w | ater (log K            | ow):                           |            |                           |                       | 1                     |       |  |
| Value                      | Cor             | ncentrat      | ion                  | рН    | °C                     | Method                         |            | Evalua                    | ation                 |                       | Note  |  |
| _                          | No              | inform        | ation _              |       | _                      | No information                 | I          | No inform                 | ation                 | -                     |       |  |
|                            | availa          | ble           |                      |       |                        | available                      |            | available                 |                       |                       |       |  |
|                            |                 |               |                      |       |                        |                                |            |                           |                       |                       |       |  |
|                            |                 |               |                      |       |                        |                                |            |                           |                       |                       |       |  |
|                            |                 |               |                      |       |                        |                                |            |                           |                       |                       |       |  |
|                            | oncen           |               | actor (BC            | F)    |                        |                                |            |                           |                       |                       |       |  |
| Value                      |                 |               | Species              |       |                        | 1ethod                         | Evaluation |                           |                       |                       | Note  |  |
| No informatic<br>available | on              | No<br>availab | informa              | ation | No inforr<br>available | nation                         |            | o informatio<br>ailable   | on                    | No infor<br>available |       |  |
| avaliable                  |                 | availab       | vie                  |       | avaliable              |                                | av         | allable                   |                       | availabit             | 5     |  |
|                            |                 |               |                      |       |                        |                                |            |                           |                       |                       |       |  |
|                            |                 |               |                      |       |                        |                                |            |                           |                       |                       |       |  |
| Chro                       | nic ec          | otoxicit      | v                    |       |                        |                                |            |                           |                       |                       |       |  |
| Valu                       |                 | <u> </u>      | Dose                 |       | Exposure<br>time       | Species                        |            | Method                    | Evalu                 | lation                | Note  |  |
| Chronic toxici             | ty on           | fish          | LC <sub>50</sub>     |       |                        | No<br>information<br>available |            | o<br>formation<br>ailable | No infor<br>available |                       | -     |  |
|                            |                 |               |                      | ····· |                        |                                |            |                           |                       |                       |       |  |



Page 12 of 16

| Trading name: |                                |               | BASIC ACTIVATION BUFFER |                       |                          |                          |                 |                             |        |                  |                                |            |           |
|---------------|--------------------------------|---------------|-------------------------|-----------------------|--------------------------|--------------------------|-----------------|-----------------------------|--------|------------------|--------------------------------|------------|-----------|
| Produc        | ct coo                         | de:           | BAP-0                   | OT-X**                |                          | Date                     | e of co         | mpilati                     | on:    | 21 Dec           | 2022                           | Version:   | 4         |
| crustac       | ea (De                         | aphnia)       |                         |                       | infor<br>avail           | mation<br>able           | infor<br>availa | mation<br>able              |        | rmation<br>lable | available                      |            |           |
| 12.4.         | Mol                            | oility in     | soil                    |                       |                          |                          |                 |                             |        |                  |                                |            |           |
|               | 1                              | -             |                         | ed distributi         | on in e                  | environm                 | nental          | compart                     | ment   | s:               |                                |            |           |
|               |                                | '<br>informa  |                         |                       |                          |                          |                 |                             |        |                  |                                |            |           |
|               |                                | ace ten       |                         |                       |                          |                          |                 |                             |        |                  |                                |            |           |
|               | · ·                            | Value         |                         | °C                    | (                        | Concentr                 | ation           |                             | Ν      | Vethod           |                                | No         | te        |
|               | No<br>information<br>available |               | n i                     | informatio<br>ailable | No                       |                          | on              | No inf                      | orma   | tion avail       | able                           | -          |           |
|               |                                |               |                         |                       |                          |                          |                 |                             |        |                  |                                |            |           |
|               | Ads                            | orption       | / deso                  | orption               |                          |                          |                 |                             |        |                  |                                |            |           |
| Transpo       | ort                            |               | ′D coef<br>nry's co     | ficient<br>onstant    | log Kow                  |                          |                 | Evaporation rate            |        | rate             | Method                         | Ν          | ote       |
| Soil-wa       | iter                           | No<br>availal |                         |                       |                          | No information available |                 | o inform<br>⁄ailable        | nation |                  | No<br>information<br>available | 1 -        |           |
| Water-        | air                            | No<br>availal |                         |                       | No information available |                          |                 | o inform<br>vailable        | nation | I                | No<br>information<br>available | ) -        |           |
| Soil-air      |                                | No<br>availa  |                         |                       |                          | No information available |                 | No information<br>available |        | 1                | No<br>information<br>available | 1 -        |           |
|               | 1                              |               |                         |                       |                          |                          |                 |                             |        |                  |                                | 1          |           |
| 12.5.         | Res                            | ults of I     | PBT and                 | d vPvB asses          | sment                    | t                        |                 |                             |        |                  |                                |            |           |
|               | ассо                           | ording t      | o REAC                  |                       | 7(f) or                  | Commis                   | sion D          | elegated                    |        |                  | e endocrine<br>U) 2017/210     |            |           |
| 12.0          | ار م                           | o orize e     | diamont                 | ing propert           |                          |                          |                 |                             |        |                  |                                |            |           |
| 12.6.         |                                |               | •                       | ing properti          |                          | atain cor                | nnona           | nts cons                    | idoro  | d to have        | ondocrino                      | disrupting | roportion |
|               | ассо                           | ording t      | o REAG                  |                       | 7(f) or                  | Commis                   | sion D          | elegated                    |        |                  | e endocrine (<br>U) 2017/210   |            |           |
|               | 9                              |               | ,                       | -,                    |                          |                          | .9.1            | -                           |        |                  |                                |            |           |
| 12.7.         | Oth                            | er adve       | rse effe                | ects                  |                          |                          |                 |                             |        |                  |                                |            |           |
|               | No                             | informa       | ition av                | vailable              |                          |                          |                 |                             |        |                  |                                |            |           |



Page 13 of 16

| Trading name: |            | BASIC ACTIVATION BUFFER |             |          |   |  |  |  |  |
|---------------|------------|-------------------------|-------------|----------|---|--|--|--|--|
| Product code: | BAP-OT-X** | Date of compilation:    | 21 Dec 2022 | Version: | 4 |  |  |  |  |

| SECTIO  | N 13. Disposal considerat | ions   |
|---------|---------------------------|--|
| 13.1.   | Waste treatment metho     | ds   |
|         | -                         |  |
| 13.1.1. | Product/Packaging disp    | osal:  |
|         | -                         | ne legal person authorized by the Ministry of Environmental and Nature   |
|         | Protection.               |  |
| 13.1.2. | Waste codes/waste desi    | gnations according to Law:   |
|         | No information available  |  |
|         |                           |  |
| 13.1.3. | Waste treatment – relev   | ant information:   |
|         | No information available  | 2  |
|         |                           |  |
| 13.1.4. | Sewage disposal – releva  | ant information:   |
|         | Waste must not be disp    | osed of into the sewage system.  |
|         |                           |  |
| 13.1.5. | Other disposal recomme    | endations:   |
|         | authorized by the minist  | roduct's remains into the sewage system. Submit the remains to the collectors<br>cry in charge. Do not dispose of the packaging into the sewage system. Submit<br>llectors authorized by the ministry in charge. Do not dispose of in places where |
| 13.1.6. | Relevant Community pro    | ovisions:  |
|         | -                         |  |
|         |                           |  |
| SECTIO  | N 14. Transport informati | ion  |
|         | Transporting/shipment by  | road (ADR)   |
| UN num  | ıber:                     | Not subject to transport regulations.  |
| UN prop | per shipping name:        | -  |
| Transpo | rt hazard class(es):      | -  |
| Packing | group:                    | -  |
| Environ | mentally hazardous:       | -  |
| Special | precautions for user:     | -  |
|         | Transporting/shipment by  |  |
| UN num  |                           | Not subject to transport regulations.  |
| UN prop | per shipping name:        | -  |



Page 14 of 16

| Trading name:       | me: BASIC ACTIVATION BUFFER |          |                           |             |          | * |
|---------------------|-----------------------------|----------|---------------------------|-------------|----------|---|
| Product code:       | BAP-OT-X**                  |          | Date of compilation:      | 21 Dec 2022 | Version: | 4 |
|                     |                             |          |                           |             |          |   |
| Transport hazard c  | lass(es):                   | -        |                           |             |          |   |
| Packing group:      |                             | -        |                           |             |          |   |
| Environmentally ha  | azardous:                   | -        |                           |             |          |   |
| Special precaution  | s for user:                 | -        |                           |             |          |   |
| Inland wat          | terway transport (Al        | DN)      |                           |             |          |   |
| UN number:          |                             | Not      | subject to transport regu | llations.   |          |   |
| UN proper shippin   | g name:                     | -        |                           |             |          |   |
| Transport hazard c  | lass(es):                   | -        |                           |             |          |   |
| Packing group:      |                             | -        |                           |             |          |   |
| Environmentally ha  | azardous:                   | -        |                           |             |          |   |
| Special precaution  | s for user:                 | -        |                           |             |          |   |
| Transport           | ing/shipment by sea         | a (IMDG) |                           |             |          |   |
| UN number:          |                             | Not      | subject to transport regu | lations.    |          |   |
| UN proper shippin   | g name:                     | -        |                           |             |          |   |
| Transport hazard c  | lass(es):                   | -        |                           |             |          |   |
| Packing group:      |                             | -        |                           |             |          |   |
| Environmentally ha  | azardous:                   | -        |                           |             |          |   |
| Special precautions | s for user:                 | -        |                           |             |          |   |
| Transport           | ing/shipment by air         | (ICAO-T  | I/IATA-DGR)               |             |          |   |
| UN number:          |                             | Not      | subject to transport regu | llations.   |          |   |
| UN proper shippin   | g name:                     | -        |                           |             |          |   |
| Transport hazard c  | lass(es):                   | -        |                           |             |          |   |
| Packing group:      |                             | -        |                           |             |          |   |
| Environmentally ha  | azardous:                   | -        |                           |             |          |   |
| Special precautions | s for user:                 | -        |                           |             |          |   |
|                     |                             |          |                           |             |          |   |
| Further information | n: -                        |          |                           |             |          |   |

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



Page 15 of 16

|               |              |   |  | Page 15 of 16   |  |  |  |
|---------------|--------------|---|--|---|--|--|--|
| Trading name: |              | BASIC ACTIVATIO   | N BUFFER   |   |  |  |  |
| Product code: | BAP-OT-X**   | Date of compilation:  | Date of compilation: 21 Dec 2022 Version:  |   |  |  |  |
| Other EU      | regulations: | Regulation (EC) No 1907/2006 of th<br>18 December 2006 concerning the<br>Restriction of Chemicals (REACH),<br>amending Directive 1999/45/EC and<br>and Commission Regulation (EC)<br>76/769/EEC and Commission Direct<br>2000/21/EC;<br>Directive 2004/42/CE of the European<br>on the limitation of emissions of vo<br>organic solvents in certain paints and<br>amending Directive 1999/13/EC;<br>Council Directive 98/24/EC of 7 April<br>of workers from the risks related to ch<br>Regulation (EC) No 1272/2008 of the<br>December 2008 on classification,<br>mixtures, amending and repealing<br>amending Regulation (EC) No 1907/2<br>REACH Restrictions on the manufact | e Registration, Evalue<br>establishing a Euro<br>repealing Council Re<br>No 1488/94 as we<br>tives 91/155/EEC, 93<br>n Parliament and of the<br>olatile organic comp<br>I varnishes and vehicl<br>1998 on the protection<br>hemical agents at wor<br>European Parliamen<br>labelling and packa<br>Directives 67/548/El<br>006; | aation, Authorisation and<br>opean Chemicals Agency,<br>egulation (EEC) No 793/93<br>ell as Council Directive<br>3/67/EEC, 93/105/EC and<br>the Council of 21 April 2004<br>oounds due to the use of<br>e refinishing products and<br>on of the health and safety<br>rk;<br>t and of the Council of 16<br>aging of substances and<br>EC and 1999/45/EC, and |  |  |  |

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 (VOCguideline) Chemicals Act. Regulation on classification, packaging and labeling of

| National legislation: | 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 |
|-----------------------|--|
|                       | Chemicals Act, Regulation on classification, packaging and labeling of   |

Chemical safety assessment None

15.2.

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



Page 16 of 16

| Trading name: |            | BASIC ACTIVATION BUFFER |             |            |  |  |  |  |  |
|---------------|------------|-------------------------|-------------|------------|--|--|--|--|--|
| Product code: | BAP-OT-X** | Date of compilation:    | 21 Dec 2022 | Version: 4 |  |  |  |  |  |

| 16.3.    | Key literature references and source of data: | -   |
|----------|---|---|
| 16.4.    | Classification and procedure 1272/2008 (CLP)  | used to derive the classification for mixture according to Regulation (EC)  |
| Classifi | cation  | Classification procedure  |
| -        |   | -   |
| 16.5.    | Relevant H statements (num                    | ber and full text)  |
|          | H: -  | -   |
| 16.6.    | Training advice:                              | -   |
|          |   | ** "X" in the product code marks different volumes (different packagings of the product)  |
| 16.7.    | Further 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

-



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

Page 1 of 18

| Trading name: |          | 4% NB FORM     |             |          |   |
|---------------|----------|----------------|-------------|----------|---|
| Product code: | FNB4-X** | Revision date: | 21 Dec 2022 | Version: | 6 |

| 1.1 | Product identifier                               |                   |  |                                |  |  |
|-----|--|-------------------|--|--------------------------------|--|--|
|     | Trading name:                                    | 4% NB FOF         | RMALDEHYD  | )E                             |  |  |
|     | Chemical name:                                   | -                 |  |                                |  |  |
|     | Catalogue number:                                | FNB4-X**          |  |                                |  |  |
| 1.2 | Relevant identified us                           | es of the subs    | tance or mix   | xture and uses advised against |  |  |
|     | Uses:  |                   | Fixative fo  | r use in histology.            |  |  |
|     | 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 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:                                | Telephone number: |  | +385 1 2409997                 |  |  |
|     | Fax no.:   |                   | +385 1 2404039   |                                |  |  |
|     | e-mail of competent p                            | person:           | msds@biognost.hr   |                                |  |  |
|     | National contact:                                |                   | -  |                                |  |  |
| 1.4 | Emergency telephone                              | number            |  |                                |  |  |
|     | National Protection ar                           | nd Rescue Dir     | ectorate:  | 112                            |  |  |
|     | Medical information:                             |                   |  | +385 1 2348 342                |  |  |
|     | Other information:                               |                   |  | -                              |  |  |

| SECTIO  | ON 2 HAZARDS INFORMATION                         |                     |  |  |  |
|---------|--|---------------------|--|--|--|
| 2.1     | Classification of the substance or mixture       |                     |  |  |  |
| 2.1.1   | Classification according to (EC) Regulation N    | o. elements         |  |  |  |
|         | Hazard class and category code:                  | Hazard statements*: |  |  |  |
|         | Acute Tox. 4                                     | H302                |  |  |  |
|         | Acute Tox. 4                                     | H312                |  |  |  |
|         | Acute Tox. 4                                     | H332                |  |  |  |
|         | Skin Sens. 1                                     | H317                |  |  |  |
|         | Muta. 2  | H341                |  |  |  |
|         | Carc. 1B   | H350                |  |  |  |
| 2.1.2.  | Additional information                           |                     |  |  |  |
|         | -  |                     |  |  |  |
| *For fu | Ill text of Hazard- and EU Hazard-statements: se | ee Section 16       |  |  |  |



2.2

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

Page 2 of 18 Trading name: **4% NB FORMALDEHYDE** Product code: FNB4-X\*\* Revision date: 21 Dec 2022 Version: 6 Label elements 4% NB FORMALDEHYDE (10% neutral buffered and stabilized formalin Product identification: solution, pH 7.0) Identification number: -Authorization no.: \_ Hazard pictograms: Signal word: Danger Harmful if swallowed. H302 H312 Harmful in contact with skin. May cause an allergic skin reaction. H317 Hazard statements: Harmful if inhaled. H332 Suspected of causing genetic defects. H341 H350 May cause cancer. P280 Wear protective gloves/protective clothing/eye/protection/face protection. , D201 , D212 IE SWALLOWED: Call a DOISON CENTER / doctor if a

|     | Precautionary statements:  | <ul> <li>P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.</li> <li>P302 + P352 IF ON SKIN: Wash with plenty of water.</li> <li>P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P308 + P313 IF exposed or concerned: Get medical advice/ attention.</li> </ul> |  |
|-----|--|---|--|
|     | Further information:   | -   |  |
| 2.3 | Other hazards  |   |  |
|     | This substance/mixture contains no components considered to be either persistent, bioaccumulative a toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |   |  |

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



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

Page 3 of 18

| Trading name:                          |  |                       |             | 4% NE | B FORM  | ALDEHYDE    |                                  |  |   |
|--|--|-----------------------|-------------|-------|---------|-------------|----------------------------------|--|---|
| Product code:                          |  | FNB4-X**              | Revision da |       | te:     | 21 Dec 2022 |                                  | Version:   | 6 |
| 50-00-0/<br>200-001-8/<br>605-001-00-5 |  | -2119488953-20-<br>XX | 3 – 5 9     | %     | formald | ehyde, 37 % | Acute To<br>Acute To<br>Skin Cor |  |   |
| 67-56-1/<br>200-659-6/<br>603-001-00-X |  | -2119433307-44-<br>XX | 1 – 3       | %     | methan  | ol          | Acute To<br>Acute To             | j. 2; H225<br>ox. 3; H301<br>ox. 3; H311<br>ox. 3; H331<br>1; H370 |   |

| 4.1 | Description of first aid measures                           |   |  |  |
|-----|---|---|--|--|
|     | 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-<br>ventilated area or out for fresh air. In case of difficult breathing,<br>provide the afflicted person with oxygen.                  |  |  |
|     | Following skin contact:                                     | Remove contaminated clothing. Immediately wash with plenty of<br>water for at least 20 minutes. Seek medical assistance if the symptoms<br>of irritation remain.  |  |  |
|     | Following eye contact:                                      | Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.   |  |  |
|     | 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 effects, 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 medi                            | cal attention and special treatment needed  |  |  |



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

Page 4 of 18

| Trading name: |          | 4% NB FOR      | MALDEHYDE   |          |   |
|---------------|----------|----------------|-------------|----------|---|
| Product code: | FNB4-X** | Revision date: | 21 Dec 2022 | Version: | 6 |

| 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:                       | No information available  |  |  |  |
| 5.2    | Special hazards arising from the substance or mixture |   |  |  |  |
|        | Hazardous combustion products:                        | Not flammable. Surrounding fire may cause hazardous fumes to be released.                                   |  |  |  |
| 5.3    | Advice for firefighters                               |   |  |  |  |
|        | Use a self-contained open-circuit of                  | compressed air breathing apparatus and fireproof clothing.  |  |  |  |
| 5.4    | Additional information                                |   |  |  |  |
|        | Do not contaminate the environm                       | ent with extinguishing media.   |  |  |  |

| SECTIO | ON 6 ACCIDENTAL RELEASE M   | EASURES  |  |  |
|--------|---|--|--|--|
| 6.1    | Personal precautions, protecti  | ve 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.  |  |  |
| 6.1.2. | For emergency responders:   |  |  |  |
|        | Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment; (see Section 8). |  |  |  |
| 6.2    | Environmental precautions:  |  |  |  |
|        | Do not dispose of in sewage,<br>Protection and Rescue Directo   | drainage system and waterways. In case of large spillage contact National<br>brate (NPRD) on 112.  |  |  |
| 6.3    | Methods and material for con  | tainment and cleaning up   |  |  |
| 6.3.1. | Bunding, covering of drains; 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<br>containers. Store the substance in well ventilated storage rooms until<br>disposal. Submit for disposal to the legal persons authorized by the<br>Ministry of Environmental and Nature Protection. After disposal of the<br>products, wash the area and and involved materials with water. |  |  |
| 6.3.3. | Other information:  | Do not use incompatible materials (see Section 10).  |  |  |



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

|               |          |                |             | Page 5 of 18 |
|---------------|----------|----------------|-------------|--------------|
| Trading name: |          | 4% NB FORM     | ALDEHYDE    |              |
| Product code: | FNB4-X** | Revision date: | 21 Dec 2022 | Version:     |

6

| 6.4 | Reference to other sections |
|-----|-----------------------------|
|     | -                           |

| 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   | on:  | 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 eati |  |   |  |  |  |  |  |
| 7.2    | Conditions for safe storage, including any incompatibilities                                  |  |   |  |  |  |  |  |
|        | Technical measures and storage conditions:  | well venti   | Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.  |  |  |  |  |  |
|        | Packaging materials:  |  | Manufacturer's original packaging. Avoid metal containers.  |  |  |  |  |  |
|        | Requirements for storage rooms and vessels:   |  | Keep away from food and drink. Keep the containers<br>ightly closed.  |  |  |  |  |  |
|        | 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:  | and do no<br>chemicals   | 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 EXPOSURE CONTROLS/PERSONAL PROTECTION |        |                              |                               |                         |  |  |  |  |  |
|---|--------|------------------------------|-------------------------------|-------------------------|--|--|--|--|--|
| 3.1 Control parameters                          |        |                              |                               |                         |  |  |  |  |  |
| Substance                                       | CAS No | Occupational<br>values/short | exposure limit<br>term values | Biological limit values |  |  |  |  |  |
|   |        | ppm                          | mg/m <sup>3</sup>             | -                       |  |  |  |  |  |



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

Page 6 of 18

|   |  |                 |                       |                |   |                                 |                                  | rage o or ro                                |      |  |  |  |
|---|--|-----------------|-----------------------|----------------|---|---------------------------------|----------------------------------|---|------|--|--|--|
| Trading name:                           | ing name: 4%                               |                 |                       |                |   |                                 | % NB FORMALDEHYDE                |   |      |  |  |  |
| Product code:                           | FNB4->                                     | 4-X**           |                       | Revision       | date:   | 21 Dec 2                        | 022                              | Version:                                    | 6    |  |  |  |
|   |  |                 |                       | •              |   |                                 |                                  | 1   |      |  |  |  |
| Formaldehyde                            |  | 50              | )-00-0                | 0.3/           | 0.6   | 0.37/0.74                       | -                                |   |      |  |  |  |
| Methanol                                |  | 67              | '-56-1                | 200            | )/-   | 260/-                           | -                                |   |      |  |  |  |
|   |  |                 |                       |                |   |                                 |                                  |   |      |  |  |  |
| Substance name:                         | -  |                 |                       |                |   | •                               |                                  |   |      |  |  |  |
| EC No:                                  | -  | CAS No          | o: -                  |                |   |                                 |                                  |   |      |  |  |  |
| DNEL                                    |  |                 |                       |                |   |                                 |                                  |   |      |  |  |  |
|   |  |                 |                       | Indu           | strial  |                                 |                                  |   |      |  |  |  |
| Route of                                | Αςι  | ute             | Acu                   | ite            |   | Chronic                         |                                  | Chronic                                     |      |  |  |  |
| exposure:                               | effect                                     | local           | effect sy             | rstemic        |   | effect local                    |                                  | effect systemic                             |      |  |  |  |
| Oral                                    | -  |                 | -                     |                | -   |                                 |                                  | -   |      |  |  |  |
|   | 0.75 mg,<br>(formald                       |                 | 130 mg/r              | n <sup>3</sup> |   | mg/m <sup>3</sup>               |                                  | 9 mg/m <sup>3</sup> (formaldehyde)          |      |  |  |  |
| Inhalation                              | 130 mg/m <sup>3</sup> (metha<br>(methanol) |                 |                       | (tormalden/de) |   | ol)                             | 130 mg/m <sup>3</sup> (methanol) |   |      |  |  |  |
| , |  | 01)             | 20 mg/kg              |                | 0.037 mg/cm <sup>2</sup>                          |                                 |                                  | 240 mg/kg (formaldehyde)                    |      |  |  |  |
| Dermai                                  | Dermal - (methan                           |                 |                       |                | (forma  | aldehyde)                       |                                  | 20 mg/kg (methanol)                         |      |  |  |  |
| Critical physical par                   | rameters: s                                | solubility,     | , flammabili          | ty, corro      | sivity:   | -                               |                                  |   |      |  |  |  |
|   |  |                 |                       | Cons           | umer  |                                 |                                  |   |      |  |  |  |
| Route of                                | Ac   |                 | Acut                  | te             |   | Chronic                         |                                  | Chronic                                     |      |  |  |  |
| exposure:                               | effect                                     | local           | effect sys            | stemic         |   | effect local                    |                                  | effect systemic                             |      |  |  |  |
| Oral                                    | -  |                 | 4 mg/kg<br>(methanol) |                | -   |                                 |                                  | 4.1 mg/kg (formaldehy<br>4 mg/kg (methanol) | /de) |  |  |  |
|   | 26 mg                                      | /m <sup>3</sup> | $26 \text{ mg/m}^3$   |                | 0.1 m   | ng/m³                           |                                  | 3.2 mg/m <sup>3</sup> (formaldehy           | (do) |  |  |  |
| Inhalation                              | (metha                                     |                 | (methanol)            |                | (formaldehyde)<br>50 mg/m <sup>3</sup> (methanol) |                                 | I)                               | 26 mg/m <sup>3</sup> (methanol)             |      |  |  |  |
| Dermal                                  | _  |                 | 4 mg/kg               | 4 mg/kg        |   | 0.012 mg/cm <sup>2</sup>        |                                  | 102 mg/kg (formaldeh                        | yde) |  |  |  |
|   |  |                 | (methanol)            |                | (formaldehyde)                                    |                                 |                                  | 4mg/kg (methanol)                           |      |  |  |  |
| PNEC                                    |  |                 |                       |                |   |                                 |                                  |   |      |  |  |  |
| Environmental prot                      | tection tar                                | get             |                       |                | PNEC  |                                 |                                  |   |      |  |  |  |
| Fresh water                             |  |                 |                       |                | 0.44 mg/l (formaldehyde)                          |                                 |                                  |   |      |  |  |  |
|   |  |                 |                       |                | 20.8 mg/l (methanol)                              |                                 |                                  |   |      |  |  |  |
| Freshwater sedime                       | nts  |                 |                       |                | 2.3 mg/kg (formaldehyde)<br>77 mg/kg (methanol)   |                                 |                                  |   |      |  |  |  |
| Marine water                            |  |                 |                       |                |   | mg/l (formaldel                 |                                  |   |      |  |  |  |
|   |  |                 |                       |                |   | ng/l (methanol                  |                                  |   |      |  |  |  |
| Marine sediments                        |  |                 |                       |                |   | g/kg (formalde<br>g/kg (methano | •                                |   |      |  |  |  |
| Food chain                              |  |                 |                       |                | No information available                          |                                 |                                  |   |      |  |  |  |



exposure:

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

Page 7 of 18 Trading name: **4% NB FORMALDEHYDE** Product code: Revision date: 21 Dec 2022 Version: 6 FNB4-X\*\* 0.19 mg/l (formaldehyde) Microorganisms in sewage treatment 100 mg/l (methanol) 0.2 mg/kg (formaldehyde) Soil (agricultural) 100 mg/kg (methanol) No information available Air 8.2 Exposure controls 8.2.1. **Engineering measures** Use the product in well ventilated rooms. Use personal Substance/mixture related measures to protective equipment. Do not eat, drink or smoke in prevent exposure during identified uses: the workspace. In accordance with Section 7. Structural measures to prevent exposure: Organization of work in order to reduce other worker's Organisational measures to prevent exposure: influence during work process. Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Technical measures to prevent exposure: Secure stations for rinsing eyes and showering. 8.2.2. Personal protection equipment Safety glasses that stick to face (EN 166) or visor in case of lower 8.2.2.1. Eye and face protection: levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air. 8.2.2.2 Skin protection Hand protection: Protective nitrile gloves, 0.11 mm thick (EN 374). Wear antistatic clothing made of natural fibers (such as cotton) Other skin protection: with long sleeves (EN 340) and shoes that cover the entire foot. Suitable mask (EN 136) or half mask (EN 140) equipped with a 8.2.2.3. combined "A1 + Form" filter (EN 143) used when concentration Respiratory protection: levels exceed GVI. 8.2.2.4. Thermal hazards: No information available 8.2.3. Environmental exposure controls Substance/mixture related See Section 6 measures to prevent exposure: Structural measures to prevent Use modern equipment. exposure: Organisational measures to Adapt the work process to the required working conditions of the prevent exposure: workplace. Technical measures to prevent See Section 6



Page 8 of 18

| Trading name: | 4% NB FORMALDEHYDE |                |             |          |   |  |  |  |
|---------------|--------------------|----------------|-------------|----------|---|--|--|--|
| Product code: | FNB4-X**           | Revision date: | 21 Dec 2022 | Version: | 6 |  |  |  |

| 9.1 | Information on basic physical and chemical properties     |                                   |                          |  |  |  |  |  |  |  |
|-----|---|-----------------------------------|--------------------------|--|--|--|--|--|--|--|
|     |   | Value                             | Method                   |  |  |  |  |  |  |  |
|     | Physical state:   | liquid                            | No information available |  |  |  |  |  |  |  |
|     | Colour:   | colorless                         | No information available |  |  |  |  |  |  |  |
|     | Odour/odour threshold:                                    | sharp/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: | cca 100 °C at 1,013 hPa           | No information available |  |  |  |  |  |  |  |
|     | Flammability:   | No information available          | No information available |  |  |  |  |  |  |  |
|     | Lover and upper explosion limit:                          | No information available          | No information available |  |  |  |  |  |  |  |
|     | Flash point:  | Not applicable                    | No information available |  |  |  |  |  |  |  |
|     | Auto-ignition temperature:                                | No information available          | No information available |  |  |  |  |  |  |  |
|     | Decomposition temperature:                                | No information available          | No information available |  |  |  |  |  |  |  |
|     | pH:   | 6.8-7.2 (neutral buffered)        | No information available |  |  |  |  |  |  |  |
|     | Kinematic viscosity:                                      | No information available          | No information available |  |  |  |  |  |  |  |
|     | Solubility:   | completely soluble in water       | No information available |  |  |  |  |  |  |  |
|     | Partition coefficient n-<br>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 (room temperature). |  |  |  |  |  |  |
| 10.3   | Possibility of hazardous reactions: | Acids, nitrogen oxides, hydrogen peroxide, oxidizing agents, polymerization initiators, alkaline metals.    |  |  |  |  |  |  |
| 10.4   | Conditions to avoid:                | Heat sources, low temperatures.   |  |  |  |  |  |  |
| 10.5   | Incompatible materials:             | Various metals, alloys, plastic, magnesium, zinc alloys.  |  |  |  |  |  |  |



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

Page 9 of 18

| Trading name: |          |                |             |          |   |
|---------------|----------|----------------|-------------|----------|---|
| Product code: | FNB4-X** | Revision date: | 21 Dec 2022 | Version: | 6 |

Hazardous decomposition products: 10.6

No information available.

| SECTION 11 T                     | OXICOLOGI       | CAL INFO   | RMATION       |                            |   |                      |                                      |    |  |
|----------------------------------|-----------------|------------|---------------|----------------------------|---|----------------------|--------------------------------------|----|--|
| 11.1 Inform                      | nation on to:   | kicologica | effects       |                            |   |                      |                                      |    |  |
| Acute                            | toxicity:       |            |               |                            |   |                      |                                      |    |  |
| Route of<br>exposure:            | Met             | hod        | Species       | Do                         | se LD <sub>50</sub> ,<br>ATE <sub>n</sub> | /LC <sub>50</sub> or | Exposure ti                          | me | Results  |
| Oral:                            | -               |            | rat           |                            | LD <sub>5</sub>                           | 0                    | No informa <sup>:</sup><br>available |    | 100 mg/kg<br>(formaldehyde)<br>100.1 mg/kg<br>(methanol) |
| Dermal:                          | -               |            | rabbit        |                            | LD₅                                       | 0                    | No informa<br>available              |    | 270 mg/kg<br>(formaldehyde)<br>300.1 mg/kg<br>(methanol) |
| Inhalation:                      | nalation: - rat |            | rat           |                            | LC <sub>5</sub>                           | D                    | 4 h                                  |    | 0.57 mg/l<br>(formaldehyde)<br>3.1 mg/l<br>(methanol)    |
|                                  |                 |            |               |                            |   |                      |                                      |    |  |
| Specif                           | ic target org   |            |               | posure (S                  | TOT SE)                                   |                      |                                      |    |  |
|                                  |                 |            | fic effects   |                            |   | Target orga          |                                      |    | Note   |
| Oral:                            |                 | formation  |               | No information             |   |                      |                                      | -  |  |
| Dermal:                          |                 | formation  |               | No information a           |   |                      |                                      | -  |  |
| Inhalation:                      | No in           | formation  | available     | No information available - |   |                      |                                      |    |  |
| Aspira                           | tion hazard:    |            |               | No inform                  | nation a                                  | available.           |                                      |    |  |
|                                  |                 |            |               |                            |   |                      |                                      |    |  |
| Irritati                         | on and corro    |            |               |                            |   |                      |                                      |    | NI .   |
| Skin<br>corrosion/irrita         | tion:           | Exposure   | e time        | Speci<br>rabbit            | es  | Evaluation           | Method<br>-                          | No | Note<br>skin irritation.                                 |
| Serious eye<br>damage/irritation |                 |            | rabbit        |                            |   | -                    | -                                    | No | eye irritation.  |
| Sencit                           | ization         |            |               |                            |   |                      |                                      |    |  |
| Schart                           |                 |            |               |                            |   |                      |                                      |    |  |
| Skin sensitizatio                | on:             | Mav ca     | ause allergic | skin reac                  | tion.                                     |                      |                                      |    |  |



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

Page 10 of 18

| Trading name: | 4% NB FORMALDEHYDE |                |             |          |   |  |  |  |  |  |
|---------------|--------------------|----------------|-------------|----------|---|--|--|--|--|--|
| Product code: | FNB4-X**           | Revision date: | 21 Dec 2022 | Version: | 6 |  |  |  |  |  |

| Sympto                   | ms related t           | o the ph              | nysical, chemic  | al and toxicolog               | ical characterist                      | ics                            |                  |  |  |
|--------------------------|------------------------|-----------------------|--|--------------------------------|--|--------------------------------|------------------|--|--|
|                          |                        |                       | , severe burns of the mouth and throat, as well as a danger of perforation of the and the stomach. |                                |  |                                |                  |  |  |
| Dermal exposure          | י וּ                   |                       |  | •                              | e time, redness a<br>n cracking and r  | iccompanied by<br>ash.         | sensation of     |  |  |
| Inhalation expos         | uro ·                  |                       |  | •                              | e time, it may lea<br>mage of respirat | ad to mucosal irr<br>ory tract | itations, cough, |  |  |
| Eye exposure:            | •                      | ending o<br>of blindi |  | on and exposure                | e time, it may lea                     | ad to stinging, te             | aring, and pain  |  |  |
| Repeate                  | ed dose toxic          | city (sub             | acute, subchro   | onic, chronic)                 |  |                                |                  |  |  |
|                          | Dose                   | e                     | Exposure<br>time   | Species                        | Method                                 | Evaluation                     | Note             |  |  |
| Subacute oral            | No infori<br>available | mation                | No<br>information<br>available   | No<br>information<br>available | No<br>information<br>available         | No<br>information<br>available | -                |  |  |
| Subacute<br>dermal       | No infori<br>available | mation                | No<br>information<br>available   | No<br>information<br>available | No<br>information<br>available         | No<br>information<br>available | -                |  |  |
| Subacute<br>inhalation   | No infori<br>available | mation                | No<br>information<br>available   | No<br>information<br>available | No<br>information<br>available         | No<br>information<br>available | -                |  |  |
| Subchronic oral          | No infori<br>available | mation                | No<br>information<br>available   | No<br>information<br>available | No<br>information<br>available         | No<br>information<br>available | -                |  |  |
| Subchronic<br>dermal     | No infori<br>available | mation                | No<br>information<br>available   | No<br>information<br>available | No<br>information<br>available         | No<br>information<br>available | -                |  |  |
| Subchronic<br>inhalation | No infori<br>available | mation                | No<br>information<br>available   | No<br>information<br>available | No<br>information<br>available         | No<br>information<br>available | -                |  |  |
| Chronic oral             | No infori<br>available | mation                | No<br>information<br>available   | No<br>information<br>available | No<br>information<br>available         | No<br>information<br>available | -                |  |  |
| Chronic dermal           | No infori<br>available | mation                | No<br>information<br>available   | No<br>information<br>available | No<br>information<br>available         | No<br>information<br>available | -                |  |  |
| Chronic<br>inhalation    | No infori<br>available | mation                | No<br>information<br>available   | No<br>information<br>available | No<br>information<br>available         | No<br>information<br>available | -                |  |  |



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

Page 11 of 18

| Trading name: | 4% NB FORMALDEHYDE |                |             |          |   |  |  |  |  |
|---------------|--------------------|----------------|-------------|----------|---|--|--|--|--|
| Product code: | FNB4-X**           | Revision date: | 21 Dec 2022 | Version: | 6 |  |  |  |  |

|  |   | Specific effects  | Target organ   | Note |  |  |
|--|---|---|--|------|--|--|
| Subacute oral No information available |   |   | No information available   | -    |  |  |
| Subacu                                 | ite dermal  | No information available  | No information available   | -    |  |  |
| Subacu                                 | ite inhalation  | No information available  | No information available   | -    |  |  |
| Subchr                                 | onic oral   | No information available  | No information available   | -    |  |  |
| Subchr                                 | onic dermal   | No information available  | No information available   | -    |  |  |
| Subchr                                 | onic inhalation   | No information available  | No information available   | -    |  |  |
| Chronic                                | c oral  | No information available  | No information available   | -    |  |  |
| Chronic                                | c dermal  | No information available  | No information available   | -    |  |  |
| Chronic                                | c inhalation  | No information available  | No information available   | -    |  |  |
|  | Genotoxicity:<br>Mutagenicity <i>in vivo</i> :<br>Germ cell mutagenicity:<br>Reproductive toxicity: |   | No information availableNo information availableNo information availableNo information available |      |  |  |
|  | Summary of ev   | valuation of the CMR properties:  | No information available   |      |  |  |
| 11.2                                   | Information or  | n other hazards:  |  |      |  |  |
| 11.2.1.                                | 1. Endocrine disrupting properties:   |   |  |      |  |  |
|  | components<br>disrupting proj<br>57(f) or Comm<br>2017/2100 or                                      | ce/mixture does not contain<br>considered to have endocrine<br>perties according to REACH Article<br>hission Delegated regulation (EU)<br>Commission Regulation (EU)<br>vels of 0.1% or higher. |  |      |  |  |
|  | 2018/605 at levels of 0.1% or higher.         . Other informations:                                 |   |  |      |  |  |

| SECTIO | SECTION 12 ECOLOGICAL INFORMATION: |  |  |  |  |  |
|--------|------------------------------------|--|--|--|--|--|
| 12.1   | Toxicity                           |  |  |  |  |  |



Soil

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

Page 12 of 18

| Trading name: | 4% NB FORMALDEHYDE |                |             |          |   |  |
|---------------|--------------------|----------------|-------------|----------|---|--|
| Product code: | FNB4-X**           | Revision date: | 21 Dec 2022 | Version: | 6 |  |

| Acute (short-term)<br>toxicity |                                 | Dose             | Exposur<br>time | e Species                        | Method                         | Eval               | uation                                    | Note |
|--------------------------------|---------------------------------|------------------|-----------------|----------------------------------|--------------------------------|--------------------|---|------|
| Fish                           |                                 | LC <sub>50</sub> | 96 hours        | fish (Morone<br>saxatilis)       | _                              | (forma<br>15.4     | ' mg/l<br>aldehyde)<br>00 mh/l<br>thanol) | -    |
| Crustacea:                     |                                 | EC <sub>50</sub> | 48 hours        | water flea<br>(Daphnia<br>magna) | -                              | (forma<br>18.26    | s mg/l<br>Ildehyde)<br>60 mg/l<br>thanol) | -    |
| Algae/aquatic plants           |                                 | IC <sub>50</sub> | 4 days          | green algae                      | -                              | (forma)<br>22.00   | 9 mg/l<br>Ildehyde)<br>00 mg/l<br>thanol) | -    |
| Other organisms                |                                 | -                | -               | -                                | -                              | -                  |   | -    |
| Chronic (long-te<br>toxicity   | Chronic (long-term)<br>toxicity |                  | Exposur<br>time | e Species                        | Method                         | Evaluation         |   | Note |
| Fish                           |                                 | LC <sub>50</sub> | 96 hours        | No information available         | No<br>information<br>available | No info<br>availab | ormation<br>le                            | -    |
| Crustacea:                     |                                 | EC <sub>50</sub> | 48 hours        | No information available         | No<br>information<br>available | No info<br>availab | ormation<br>le                            | -    |
| Algae/aquatic plants           |                                 | IC <sub>50</sub> | 72 hours        | No information<br>available      | No<br>information<br>available | No info<br>availab | ormation<br>le                            | -    |
| Other organisms                | S                               | -                | -               | -                                | -                              | -                  |   | -    |
|                                |                                 |                  |                 |                                  |                                |                    |   |      |
|                                |                                 | nd degradab      | ility           |                                  |                                |                    |   |      |
| Abiotic                        |                                 |                  |                 |                                  |                                |                    |   |      |
| Deo                            |                                 | gradation ha     | lf-lives        | Method                           | Evaluati                       |                    |   | Note |
| Marine water No in             |                                 | nformation av    | vailable        | No information available         | No informationavailable        | on                 | -   |      |
| Fresh water                    | No ir                           | nformation av    | vailable        | No information<br>available      | No informatio<br>available     | on                 | -   |      |
| Air                            | No ir                           | nformation av    | vailable        | No information<br>available      | No information                 |                    | -   |      |

No information

available

No information available

No information

available

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

Page 13 of 18

| Trading name: | 4% NB FORMALDEHYDE |                |             |          |   |
|---------------|--------------------|----------------|-------------|----------|---|
| Product code: | FNB4-X**           | Revision date: | 21 Dec 2022 | Version: | 6 |

| Daccumu<br>rtition c<br>Cou                      | o informa<br>ulative po   | : n-octanc              |  |   | Method<br>Formation<br>ple   |  | Evaluatio<br>informatic<br>ilable  |  | No info<br>availab  | Note<br>ormation<br>ole  |
|--|---|-------------------------|--|---|--|--|--|--|---|--|
| Daccumu<br>rtition c<br>Cou                      | ulative po<br>oefficient  | tential<br>:: n-octanc  |  |   |  |  |  | 'n   |   |  |
| rtition c<br>Coi<br>-                            | oefficient  | : n-octanc              |  |   |  |  |  |  |   |  |
|  |   | •                       | Η  | °C  | Method   |  |  | Jation   |   | Note   |
|  |   | -                       |  |   | formaldehyd  | e  | -  |  | -   |  |
| -  |   | -                       |  | -   | methanol   |  | -  |  | -   |  |
|  |   |                         |  |   |  |  |  |  |   |  |
|  |   |                         |  |   |  |  |  |  |   |  |
|  |   |                         |  |   | Mathad   |  | Ev al+   | ion  |   | Nota   |
|  |   |                         |  |   |  | NL   |  |  |   | Note   |
|  | -   |                         |  | available   |  |  | available  |  | -   |  |
| ironic ec  | cotoxicity  |                         |  |   |  |  |  |  |   |  |
| /alue  |   | Dose                    | Exposure<br>time   |   | Species  | ٦  | Method   | Evalu  | ation   | Note   |
| Chronic toxicity on fish                         |   | LC <sub>50</sub>        | No<br>information<br>available   |   | No<br>informatio<br>available  | n in   | formatio   |  |   | -  |
| Chronic toxicity on crustacea ( <i>Daphnia</i> ) |   | EC <sub>50</sub>        | No<br>information<br>available   |   | No<br>informatio<br>available  | n in   | formatio   |  |   | -  |
|  |   |                         |  |   |  |  |  |  |   |  |
| -  |   | l dictributi            | on in c  | nvirona   | oental comp  | rtma   | ntc:   |  |   |  |
|  | •   |                         | onine  |   | nentai compa   | artiner  | 1115.  |  |   |  |
|  |   | navie                   |  |   |  |  |  |  |   |  |
|  |   | °C                      | · · ·  |   |  |  | 1 - +   !  |  |   | Note   |
|  | ronic ed<br>ronic ed<br>alue<br>icity on<br>icity on<br>Daphnia | e Information available | e Species<br>tion No inform<br>available<br>ronic ecotoxicity<br>alue Dose<br>icity on fish LC50<br>icity on fish LC50<br>icity on Or predicted distribution<br>own or predicted distribution<br>o information available<br>rface tension: | tion No information<br>available<br>ronic ecotoxicity<br>'alue Dose Exp<br>ti<br>icity on fish $LC_{50}$ No<br>information available<br>own or predicted distribution in e<br>p information available<br>rface tension: | Species       No         tion       No       information       No information         available       available       available         rronic ecotoxicity       Dose       Exposure time         'alue       Dose       No         icity on fish       LC50       No         icity on Daphnia)       EC50       No         own or predicted distribution in environne o information available       available | Species       Method         tion       No       information<br>available       No information<br>available         ronic ecotoxicity       Dose       Exposure<br>time       Species         'alue       Dose       Exposure<br>time       Species         icity on fish       LC <sub>50</sub> No<br>information<br>available       No<br>information<br>available       No<br>information<br>available         icity on<br>Daphnia)       EC <sub>50</sub> No<br>information<br>available       No<br>information<br>available         obility in soil       Output       Image: Species       No         own or predicted distribution in environmental compa-<br>poinformation available       Image: Species       Image: Species         operation available       Image: Species       No       No       Image: Species         own or predicted distribution in environmental compa-<br>poinformation available       Image: Species       Image: Species         own or predicted distribution in environmental compa-<br>poinformation available       Image: Species       Image: Species         own or predicted distribution in environmental compa-<br>poinformation available       Image: Species       Image: Species | Species       Method         tion       No       information       No information       N         available       available       available       available       available         ronic ecotoxicity       Dose       Exposure<br>time       Species       I         ralue       Dose       Exposure<br>time       Species       I         icity on fish       LC50       No       No       No       n         icity on Dophnia)       EC50       No       No       n       n         obility in soil       own or predicted distribution in environmental compartmental co | Species       Method       Evaluat         tion       No       information<br>available       No information<br>available       No information<br>available       No information<br>available       No information<br>available       No         ronic ecotoxicity       Dose       Exposure<br>time       Species       Method         icity on fish       LC <sub>50</sub> No<br>information<br>available       No<br>information<br>available       No<br>information<br>available       No<br>information<br>available       No<br>information<br>available       No<br>information<br>available         obbility in soil       EC <sub>50</sub> No<br>information available       No<br>information<br>available       No<br>information<br>available       No<br>information<br>available         own or predicted distribution in environmental compartments:       Differention<br>information available       Image: Species       Method         provide the species       No       No       No       No       No         own or predicted distribution in environmental compartments:       Differention       Image: Species       Image: Species         own or predicted distribution in environmental compartments:       Image: Species       Image: Species       Image: Species         own or predicted distribution in environmental compartments:       Image: Species       Image: Species       Image: Species         own or predicted distribution       Image: Species       < | Species       Method       Evaluation         tion       No       information<br>available       No information<br>available       No information<br>available         ronic ecotoxicity       Dose       Exposure<br>time       Species       Method       Evaluation         ronic ecotoxicity       Dose       Exposure<br>time       Species       Method       Evaluation         icity on fish       LC <sub>50</sub> No       No       information<br>available       No       No         icity on<br>Daphnia)       EC <sub>50</sub> No       No       No       No       No         own or predicted distribution in environmental compartments:       o       information available       available         own or predicted distribution in environmental compartments:       o       information available       information | e       Species       Method       Evaluation         tion       No       information available       No information available       No information available         available       available       Species       No       No         ronic ecotoxicity       Dose       Exposure time       Species       Method       Evaluation         ronic ecotoxicity       Dose       Exposure time       Species       Method       Evaluation         icity on fish       LC <sub>50</sub> No       No       no       no       information available       available         icity on cophnia)       EC <sub>50</sub> No       No       No       no       information available       available       available         own or predicted distribution in environmental compartments:       out of the stribution in environmental compartments:       information available       available         oinformation available       information available       information available       information available       information available |



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

Page 1/ of 18

| <b></b>       |       |                      |  |                          |                                  |                           |                          | ſ         | age 14 01 10  |       |
|---------------|-------|----------------------|--|--------------------------|----------------------------------|---------------------------|--------------------------|-----------|---------------|-------|
| Trading name: |       | me:                  |  | 49                       | 6 N                              | <b>B FORMALDE</b>         | HYDE                     |           |               |       |
| Produ         | ct co | de:                  | FNB4-X**   | Revisio                  | n da                             | ate: 21 D                 | ec 2022                  |           | Version:      | 6     |
|               |       |                      |  |                          |                                  |                           |                          |           |               |       |
|               |       | ormation<br>ilable   | No<br>information<br>available                             | No information available | tion No information<br>available |                           | n                        | -         |               |       |
|               |       |                      |  |                          |                                  |                           |                          |           |               |       |
|               |       |                      |  |                          |                                  |                           |                          |           |               |       |
|               | Ads   | sorptior             | n / desorption   |                          |                                  |                           |                          |           |               |       |
| Transpo       | ort   |                      | /D coefficient<br>enry's constant                          | log Kow                  | E١                               | vaporation rate           | Meth                     | nod       | Note          |       |
| Soil-wa       | ater  | No<br>availa         | information<br>ble   | No information available |                                  | o information<br>vailable | No inforn<br>available   | nation    | -             |       |
| Water-        | air   | No<br>availa         | information<br>ble   | No information available |                                  | o information<br>vailable | No inforn<br>available   | nation    | -             |       |
| Soil-air      | -     | No<br>availa         | information<br>ble   | No information available | No information<br>available      |                           | No information available |           | -             |       |
| 12.5.         | Res   | ults of I            | PBT and vPvB asse  | ssment                   |                                  |                           |                          |           |               |       |
|               |       |                      | nce/mixture conta<br>, or very persistent                  | •                        |                                  |                           | •                        |           |               | e and |
| 12.6.         | Enc   | locrine              | disrupting propert   | ies                      |                                  |                           |                          |           |               |       |
|               | асс   | ording               | nce/mixture does<br>to REACH Article 5<br>(EU) 2018/605 at | 7(f) or Commission       | n De                             | elegated regulat          |                          |           |               |       |
|               |       |                      |  |                          |                                  |                           |                          |           |               |       |
| 12.6.         |       |                      | erse effects   |                          |                                  |                           |                          |           |               |       |
|               | No    | informa              | ation available  |                          |                                  |                           |                          |           |               |       |
| SECTIC        | DN 13 | DISPC                | SAL CONSIDERA  | TIONS                    |                                  |                           |                          |           |               |       |
| 13.1          | W     | /aste tre            | eatment methods  |                          |                                  |                           |                          |           |               |       |
|               |       |                      |  |                          |                                  |                           |                          |           |               |       |
| 13.1.1.       | P     | roduct/              | Packaging disposa  | l:                       |                                  |                           |                          |           |               |       |
|               |       | ubmit fo<br>rotectio | or disposal to the l<br>n.                                 | egal person autho        | rize                             | d by the Ministr          | y of Enviror             | nmental   | and Nature    |       |
| 13.1.2.       | ١٨    | laste co             | odes/waste designa   | ations according to      | יבן ר                            | \\\/.                     |                          |           |               |       |
| 13.1.2.       |       |                      | g that contains res  |                          |                                  |                           | aminated w               | vith haza | ardous substa | nces  |
|               | •     |                      |  |                          |                                  |                           |                          |           |               |       |



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

Page 15 of 18

| Trading name: | 4% NB FORMALDEHYDE |                |             |          |   |  |  |
|---------------|--------------------|----------------|-------------|----------|---|--|--|
| Product code: | FNB4-X**           | Revision date: | 21 Dec 2022 | Version: | 6 |  |  |

| 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 recomme  | 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. |                                |  |  |  |
| 13.1.6.                  | Relevant Community pro  | visions:                       |  |  |  |
|                          | -   |                                |  |  |  |
|                          |   |                                |  |  |  |
| SECTION                  | 14 TRANSPORT INFORM   | 1ATION                         |  |  |  |
|                          | Transporting/shipment by  | road (ADR)                     |  |  |  |
| UN num                   | ber:  | Not applicable                 |  |  |  |
| UN prop                  | er shipping name:   | -                              |  |  |  |
| Transpor                 | t hazard class(es):   | -                              |  |  |  |
| Packing                  | group:  | -                              |  |  |  |
| Environn                 | nentally hazardous:   | -                              |  |  |  |
| Special p                | precautions for user:   | -                              |  |  |  |
|                          | Transporting/shipment by  | rail (RID)                     |  |  |  |
| UN num                   | ber:  | Not applicable                 |  |  |  |
| UN prop                  | er shipping name:   | -                              |  |  |  |
| Transpor                 | t hazard class(es):   | -                              |  |  |  |
| Packing                  | group:  | -                              |  |  |  |
| Environm                 | nentally hazardous:   | -                              |  |  |  |
| Special p                | recautions for user:  | -                              |  |  |  |
|                          | Inland waterway transport   | (ADN)                          |  |  |  |
| UN num                   | ber:  | Not applicable                 |  |  |  |
| UN proper shipping name: |   | -                              |  |  |  |
| Transpor                 | t hazard class(es):   | -                              |  |  |  |
| Packing                  | group:  | -                              |  |  |  |
| Environm                 | nentally hazardous:   | -                              |  |  |  |
| Special p                | precautions for user:   | -                              |  |  |  |
|                          | Transporting/shipment by  | sea (IMDG)                     |  |  |  |



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

Page 16 of 18

| Trading name:          | 4% NB FORMALDEHYDE |                |             |          |   |
|------------------------|--------------------|----------------|-------------|----------|---|
| Product code: FNB4-X** |                    | Revision date: | 21 Dec 2022 | Version: | 6 |
|                        |                    |                | •           |          |   |

| UN number:  | Not applicable                                   |
|---|--|
| 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:  | 3334   |
| UN proper shipping name:  | Aviation regulated liquid, n.o.s. (formaldehyde) |
| Transport hazard class(es):   | 9  |
| Packing group:  | III  |
| Environmentally hazardous:  | None   |
| Special precautions for user:   | no information                                   |
|   |  |

| Eurth              | Further information:               | Formaldehyde solutions, nonflammable, containing less than 25% of formaldehyde do |
|--------------------|------------------------------------|---|
| Further mormation. | not adhere to the ADR regulations. |   |

| 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:  | - |  |  |  |



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

Page 17 of 18

| Trading name: | 4% NB FORMALDEHYDE |                             |                            |  |   |  |
|---------------|--------------------|-----------------------------|----------------------------|--|---|--|
| Product code: | FNB4-X**           | Revision date:              | Revision date: 21 Dec 2022 |  | 6 |  |
|               |                    | agulation (EC) No 1907/2006 |                            |  |   |  |

|      | 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<br>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: | -  |  |  |  |  |



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

Page 18 of 18

| Trading name: |          | 4% NB FOR      | 4% NB FORMALDEHYDE |          |   |
|---------------|----------|----------------|--------------------|----------|---|
| Product code: | FNB4-X** | Revision date: | 21 Dec 2022        | Version: | 6 |

| 16.4.    | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) |     |   |  |
|----------|---|-----|---|--|
| Classifi | ssification according to CLP  |     | Classification procedure  |  |
| -        |   |     | -   |  |
| 16.5.    | Relevant H statements (num  |     | iber and full text)   |  |
|          | H:  | 225 | Highly flammable liquid and vapor.  |  |
|          |   | 301 | Toxic if swallowed.   |  |
|          |   | 302 | Harmful if swallowed.   |  |
|          |   | 311 | Toxic in contact with skin.   |  |
|          |   | 312 | Harmful in contact with skin.   |  |
|          | 314<br>317<br>331   |     | Causes severe skin burns and eye damage   |  |
|          |   |     | May cause allergic skin reaction.   |  |
|          |   |     | Toxic if inhaled.   |  |
|          |   | 332 | Harmful if inhaled.   |  |
|          |   | 341 | Suspected of causing genetic defects.   |  |
|          |   | 350 | May cause cancer.   |  |
|          |   | 370 | Causes damage to organs.  |  |
| 16.6.    | . Training advice: -  |     | -   |  |
|          |   |     | ** "X" in the product code marks different volumes (different packagings of the product)  |  |
| 16.7.    | 16.7. Further 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**

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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:   | HEMATOXYLIN ML |                        |   |  |
|                     | Chemical name:  | -              |                        |   |  |
|                     | Catalogue number:   | HEMML-C        | HEMML-OT-X**           |   |  |
| 1.2.                | Relevant identified uses of the substance or mixture and uses advised against |                |                        | ixture 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:    | medical c              | uct is intended for use only as an <i>in vitro</i> diagnostic<br>levice, registered at the Agency for Medicinal Products and<br>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: B   |                | BioGnost Ltd.          |   |  |
|                     | Address:  |                | Medjugorska 59, Zagreb |   |  |
|                     | Telephone number:   |                | +385 1 2409997         |   |  |
|                     | Fax no.:  |                | +385 1 2404039         |   |  |
|                     | e-mail of competent person:   |                | msds@biognost.hr       |   |  |
| National contact: - |   |                |                        |   |  |
| 1.4.                | Emergency telephone number  |                |                        |   |  |
|                     | National Protection and Rescue Dire   |                | 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 Reg                     | ulation (EC) No 1272/20 | 08 (CLP) |  |  |
|                                   | Hazard class and category code: Hazard statements*: |                         |          |  |  |
|                                   | Eye Irr. 2 H319                                     |                         |          |  |  |
| 2.1.2.                            | Additional information                              |                         |          |  |  |
|                                   | -   |                         |          |  |  |
| *For full                         | text of Hazard- and EU Hazard-s                     | 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   |  |
|      | <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) |  |  |  |
| 7784-31-8/<br>616-524-3/<br>- | -   | 3 – 4 %                        | aluminum sulfate<br>octadecahydrate | Eye Dam. 1; H318  |  |  |  |

| SECTI | SECTION 4. First aid measures  |  |  |  |  |  |
|-------|--------------------------------|--|--|--|--|--|
| 4.1.  | Description of first aid measu | ures   |  |  |  |  |
|       | 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 | CTION 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 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 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, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (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 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:   | 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 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 to<br>prevent exposure:<br>Technical measures to prevent<br>exposure: |        | Organization of work in order to reduce other worker's influence during work process.   |  |  |  |
|          |   |        | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.  |  |  |  |
| 8.2.2.   | Personal protection equi  | oment  |   |  |  |  |
| 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:  |        | ar antistatic clothing made of natural fibers (such as cotton) with long<br>ves (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   |        |   |  |  |  |
|          | 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: |              | HEMAT          | 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 | N 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 |
|        | Acute toxicity:  |



Page 8 of 17

| Trading name: |              | HEMAT          | 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:                     |                          |                              |                                | HEMA                           | TOXYLIN ML                     |                          |          |       |
| Product code: HI                  |                          | 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 information available |                              | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No inforr<br>available   | mation   | -     |
| Subacute<br>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 |          | -     |
| Subchronic<br>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 |          | -     |
| 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 information available |                              | 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 information available |                              | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No information available |          | -     |
| I                                 |                          |                              |                                |                                |                                |                          |          |       |
| Specific                          | targe                    | t organ toxici               |                                | exposure (STO                  | T RE):                         |                          |          |       |
|                                   |                          |                              | Specific effect                |                                | Target o                       | -                        | 1        | Note  |
| Subacute oral                     |                          |                              | tion available                 |                                | No information available       |                          | -        |       |
| 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:                 |            |                                       | HEMA                     | TOXYLIN ML               |   |  |  |  |
|---------------------------|-----------------------|------------|---------------------------------------|--------------------------|--------------------------|---|--|--|--|
| Product code: HEMML-OT-X* |                       | 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                         | Mutagenio             | city in    | n-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 av        |                          |   |  |  |  |
| F                         | Reproduct             | ive to     | oxicity:                              | No information av        |                          |   |  |  |  |
|                           |                       |            |                                       |                          |                          |   |  |  |  |
| 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. 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         | 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: |              | HEMAT          | OXYLIN 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

| Abio            | otic 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: |              | HEMAT          | OXYLIN ML   |          |   |
|---------------|--------------|----------------|-------------|----------|---|
| Product code: | HEMML-OT-X** | Revision date: | 27.03.2023. | Version: | 9 |

|                 |                                    | Thran  | on factor (BCF)                       | /                      |                     |                                    | F                      |                    |                    |                 |      |  |
|-----------------|------------------------------------|--------|---------------------------------------|------------------------|---------------------|------------------------------------|------------------------|--------------------|--------------------|-----------------|------|--|
| Va<br>No inforr | lue<br>mation                      | •      |                                       | •                      |                     | Method Evaluation                  |                        |                    |                    |                 | Note |  |
| available       |                                    | ava    | ilable                                |                        | availabl            |                                    | available              |                    |                    | available       |      |  |
|                 | Chronic e                          | ecoto  | kicity                                |                        |                     |                                    |                        |                    |                    |                 |      |  |
|                 | Value                              |        | Dose                                  |                        | osure<br>me         | Species                            | Meth                   | od                 | Eva                | aluation        | Note |  |
| Chronic t       | oxicity or                         | ı fish | LC <sub>50</sub>                      | No<br>inforr<br>availa | nation<br>ble       | No<br>informat<br>ion<br>available | No inform<br>available | ation              | No info<br>availab | ormation<br>lle | -    |  |
|                 | toxicity or<br>a ( <i>Daphni</i> a |        | EC <sub>50</sub>                      | No<br>inforr<br>availa | nation<br>ble       | No<br>informat<br>ion<br>available | No inform<br>available | ation              | No info<br>availab | ormation<br>le  | -    |  |
|                 |                                    | natio  | licted distribut<br>n available<br>n: | ion in e               | nvironm             | ental comp                         | oartments:             |                    |                    |                 |      |  |
|                 | Value                              |        | °C                                    |                        | Conce               | entration                          | Meth                   | od                 |                    | Note            |      |  |
|                 | No<br>informati<br>available       | on i   | No inform<br>available                | nation                 | No info<br>availabl | rmation<br>e                       | No inform<br>available | ation              | -                  |                 |      |  |
|                 |                                    |        |                                       |                        |                     |                                    |                        |                    |                    |                 |      |  |
|                 | 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               | ormation<br>le         | No info<br>availat | ormatior<br>ole    | ٦ <sub>-</sub>  |      |  |
| Water-ai        | r No<br>avail                      | able   | information                           | No in<br>availa        | formatio<br>ble     | n No info<br>availab               | ormation<br>le         | No info<br>availat | ormatior<br>ole    | ۱<br>-          |      |  |
|                 | No                                 |        | information                           |                        |                     |                                    |                        | ormation No info   |                    | nation _        |      |  |



Page 13 of 17

| Trading name: |              |                |             |          |   |
|---------------|--------------|----------------|-------------|----------|---|
| 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:               | HEMATOXYLIN 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:                  |                        | 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 air (l | CAO-                                  | ΓΙ/IATA-DGR)       |                  |          |   |  |
| UN number:                  |                        | No                                    | subject to transpo | ort regulations. |          |   |  |
| UN proper shipping name:    |                        | -                                     |                    |                  |          |   |  |
| Transport hazard class(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:<br>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 |   |  |  |  |
| 5.2. | Chemical safety assessme  | ent   |  |  |  |
|      | None  |   |  |  |  |

| SECTIO | 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    | t cod   | le:               | HEMML-OT-X*  | ŧ   | Revision date:          | 27.03.2023.            | Version:             | 9       |
|           |   |                   | 1  |   | 1                       |                        | 1                    | 1       |
| 16.2.     | .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               |  | Causes  | s serious eye irritatio | on.                    |                      |         |
| 16.6.     | Trai  | ning a            | idvice:  | -   |                         |                        |                      |         |
| 16.7.     | the pr<br>Further information: We ar<br>instrue |                   | 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 17

| Trading name: | OIL RED O REAGENT |                |                  |          |   |
|---------------|-------------------|----------------|------------------|----------|---|
| Product code: | ORO-OT-X**        | Revision date: | 14 November 2022 | Version: | 5 |

| <b>SECTI</b><br>1.1 | ION 1: Identification of 1<br>Product identifier | he substance   | e/mixture              | and of the company/undertaking  |  |  |  |
|---------------------|--|--|------------------------|---|--|--|--|
|                     | Trading name:                                    | OIL RED O  | REAGENT                |   |  |  |  |
|                     | Chemical name:                                   | -  | -                      |   |  |  |  |
|                     | Catalogue number:                                | ORO-OT-X*  | **                     |   |  |  |  |
| 1.2                 |  | es of the subs   | tance or n             | nixture and uses advised against  |  |  |  |
|                     | Uses:  |  | Reagent                | for staining lipid substances.  |  |  |  |
|                     | Uses advised against:                            |  | Only the               | identified uses are advised.  |  |  |  |
|                     | Reason why uses advis                            | vised against: device, registered at the Agency for Medicinal Pr |                        | duct is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes. |  |  |  |
| 1.3                 | Details of the supplier                          | of the safety  | data shee              | t   |  |  |  |
|                     | 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                              | number   |                        |   |  |  |  |
|                     | National Protection ar                           | d Rescue Dire  | ectorate:              | 112   |  |  |  |
|                     | Medical information:                             |  |                        | +385 1 2348 342   |  |  |  |
|                     | Other information:                               |  |                        | -   |  |  |  |

| SECTION 2. Hazards identification |                                    |                    |               |                |
|-----------------------------------|------------------------------------|--------------------|---------------|----------------|
| 2.1                               | Classification of the substance of | or mixture         |               |                |
| 2.1.1                             | Classification according to Regu   | ulation (EC) No 12 | 72/2008 (CLP) |                |
|                                   | Hazard class and catego            | ory code:          | Hazar         | d statements*: |
|                                   | Flam. Liq. 2                       |                    | H225          |                |
|                                   | Eye Irr. 2                         |                    | H319          |                |
|                                   | STOT SE 3                          |                    | H336          |                |
| 2.1.2.                            | Additional information             |                    |               |                |
|                                   | -                                  |                    |               |                |
| *For ful                          | l text of Hazard- and EU Hazard-   | statements: see S  | ECTION 16     |                |
| 2.2                               | Label elements                     |                    |               |                |
|                                   | Product identification:            | OIL RED O REAG     | ENT           |                |
|                                   | Identification number:             | -                  |               |                |



Page 2 of 17

| Trading name: | OIL RED O REAGENT |                |                  |          |   |
|---------------|-------------------|----------------|------------------|----------|---|
| Product code: | ORO-OT-X**        | Revision date: | 14 November 2022 | Version: | 5 |

|     | Authorization number:                | -  |
|-----|--------------------------------------|--|
|     | Hazard pictograms:                   | GHS02 GHS07  |
|     | Signal word:                         | Danger   |
|     | Hazard statements:                   | <ul><li>H225 Highly flammable liquid and vapor.</li><li>H319 Causes serious eye irritation.</li><li>H336 May cause drowsiness or dizziness</li></ul>   |
|     | Precautionary statements:            | <ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke.</li> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</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> </ul> |
|     | Supplemetal hazard information (EU): | -  |
| 2.3 | Other hazards                        |  |
|     | Endocrine Disrupting Prope           | rties:   |
|     | No known endocrine disrupti          | ng properties.   |
|     |                                      | ins no components considered to be either persistent, bioaccumulative and and very bioaccumulative (vPvB) at levels of 0.1% or higher.   |

| SECTION 3. Composition/information on ingredients |                          |                                |                     |  |
|---|--------------------------|--------------------------------|---------------------|--|
| CAS/<br>EC/<br>Index number                       | REACH Registration<br>No | Weight % content<br>(or range) | Identification name | Classification according to<br>Regulation (EC) No<br>1272/2008 (CLP) |
| 67-63-0/<br>200-661-7/<br>603-117-00-0            | -                        | 70 - 90 %                      | propan-2-ol         | Flam. Liq. 2; H225<br>Eye Irr. 2; H319<br>STOT SE 3; H336            |

| SECTION 4. First aid measures |                                   |  |  |  |
|-------------------------------|-----------------------------------|--|--|--|
| 4.1                           | Description of first aid measures |  |  |  |
|                               | General notes:                    | If the suggested first aid measures do not prove sufficient, seek medical attention. |  |  |



Page 3 of 17

| Trading name: | OIL RED O REAGENT |                |                  |          |   |  |
|---------------|-------------------|----------------|------------------|----------|---|--|
| Product code: | ORO-OT-X**        | Revision date: | 14 November 2022 | Version: | 5 |  |

|     | _                                   |   |
|-----|-------------------------------------|---|
| 4.3 | Indication of any immediate medi    | cal attention and special treatment needed  |
|     | Following ingestion:                | Overexposure may cause mild, reversible liver effects. Aspiration may lead to: lung edema, pneumonia  |
|     | Following eye contact:              | Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.   |
|     | Following skin contact:             | Defatting, dry skin.  |
|     | Following inhalation:               | Central nervous system depression, prolonged or repeated exposure can cause: nausea, headache, vomiting, narcosis, drowsiness.  |
| 4.2 | Most important symptoms and eff     | fects, both acute and delayed   |
|     | Self-protection of the first aider: | -   |
|     | Following ingestion:                | Do not induce vomiting. Do not insert any object into the<br>unconscious person's mouth. Immediately consult a physician and<br>show the container or label. In case of swallowing large quantities,<br>transport the afflicted person to the hospital. |
|     | Following eye contact:              | Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.   |
|     | Following skin contact:             | Remove contaminated clothing. Immediately wash with plenty of<br>water for at least 20 minutes. Seek medical assistance if the symptom<br>of irritation remain.   |
|     | Following inhalation:               | Carry the afflicted person out of the contaminated area into a well-<br>ventilated area or out for fresh air. In case of difficult breathing,<br>provide the afflicted person with oxygen.  |

| SECTI | SECTION 5. Firefighting measures   |   |  |  |  |  |
|-------|--|---|--|--|--|--|
| 5.1   | Extinguishing media  |   |  |  |  |  |
|       | Suitable extinguishing media:  | Carbon dioxide (CO <sub>2</sub> ), foam, dry powder.  |  |  |  |  |
|       | Unsuitable extinguishing media:  | No information available.   |  |  |  |  |
| 5.2   | Special hazards arising from the substance or mixture  |   |  |  |  |  |
|       | Hazardous combustion products:   | Carbon oxides Combustible. Pay attention to flashback. Vapors are<br>heavier than air and may spread along floors. Development of<br>hazardous combustion gases or vapours possible in the event of fire.<br>Forms explosive mixtures with air at ambient temperatures. |  |  |  |  |
| 5.3   | Advice for firefighters  |   |  |  |  |  |
|       | Use a self-contained open-circuit of   | compressed air breathing apparatus and fireproof clothing.  |  |  |  |  |
| 5.4   | Additional information   |   |  |  |  |  |
|       | Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system. |   |  |  |  |  |



Page 4 of 17

| Trading name: | OIL RED O REAGENT |                |                  |          |   |  |
|---------------|-------------------|----------------|------------------|----------|---|--|
| Product code: | ORO-OT-X**        | Revision date: | 14 November 2022 | Version: | 5 |  |

| 6.1    | Personal precautions, protective equipment and emergency procedures  |   |  |  |  |
|--------|--|---|--|--|--|
| 6.1.1. | For non-emergency personne   | I   |  |  |  |
|        | 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. Keep away from ignition sources.   |  |  |  |
|        | Emergency procedures:  | Mark the area using proper signs.   |  |  |  |
| 6.1.2. | For emergency responders:  |   |  |  |  |
|        | Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8). |   |  |  |  |
| 6.2    | Environmental precautions:   |   |  |  |  |
|        | Do not dispose of in sewage,<br>Protection and Rescue Directo  | drainage system and waterways. In case of large spillage contact National<br>orate (NPRD) on 112.   |  |  |  |
| 6.3    | Methods and material for con   | tainment and cleaning up  |  |  |  |
| 6.3.1. | Bunding, covering of drains; capping procedures:   | Sand protective barrier or barriers made of similar materials.  |  |  |  |
| 6.3.2. | Cleaning up:   | Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water. |  |  |  |
| 6.3.3. | Other information:   | Secure proper ventilation. 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 protection equipment.  |   |  |  |  |
|        | See Section 8 for information  | on personal protection equipment.   |  |  |  |

| SECTIO | SECTION 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. Keep<br>away from sources of ignition and heat. Do<br>not use tools that cause sparks. Do not<br>smoke. |  |  |  |
|        | Measures to prevent aerosol and dust generation: | Secure proper ventilation.  |  |  |  |



Page 5 of 17

| Trading name: | OIL RED O REAGENT |                |                  |          |   |  |
|---------------|-------------------|----------------|------------------|----------|---|--|
| Product code: | ORO-OT-X**        | Revision date: | 14 November 2022 | Version: | 5 |  |

|        | Measures to protect the environment:             |                      | Prevent spilling into the sewage system and waterways.  |  |  |
|--------|--|----------------------|---|--|--|
|        | Other measures:                                  |                      | Protect against electrostatic charges.  |  |  |
| 7.1.2. | Advice on general occupational hygiene:          |                      |   |  |  |
|        | Do not eat, drink or smoke in the workspace. The | noroughly was        | sh hands after work and before eating.  |  |  |
| 7.2    | Conditions for safe storage, including any incor | npatibilities        |   |  |  |
|        | Technical measures and storage conditions:       |                      | ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.   |  |  |
|        | Packaging materials:                             |                      | Manufacturer's original packaging. Suitable material:<br>HDPE containers.   |  |  |
|        | Requirements for storage rooms and vessels:      |                      | ep away from food and drink. Keep the containers ntly closed.   |  |  |
|        | Advices for storage equipment:                   | must be re           | ge must be made of hard material; floors<br>esistant to chemicals. There must be no drain<br>Ily leads into sewage system. Secure proper<br>n.  |  |  |
|        | Further information on storage conditions:       | and do no chemicals. | 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. Exposure controls/personal protection |                                      |        |          |         |   |                   |                 |                         |
|--|--------------------------------------|--------|----------|---------|---|-------------------|-----------------|-------------------------|
| 8.1 Control parameters                           |                                      |        |          |         |   |                   |                 |                         |
| Substance  |                                      | CAS No |          |         | Occupational exposure limit<br>values/short term values |                   |                 | Biological limit values |
|  |                                      |        |          | рр      | m   | mg/m <sup>3</sup> |                 |                         |
| Propan-2-ol                                      | Propan-2-ol 67-63-0 400/500 999/1250 |        | 999/1250 |         | -   |                   |                 |                         |
|  |                                      |        |          |         |   |                   |                 |                         |
| Substance name:                                  | -                                    |        |          |         |   |                   |                 |                         |
| EC No:   | -                                    | CAS No | • -      |         |   |                   |                 |                         |
| DNEL   |                                      | •      |          |         |   |                   |                 |                         |
| Industrial                                       |                                      |        |          |         |   |                   |                 |                         |
| Route of   | Αςι                                  | ıte    | Ac       | ute     |   | Chronic           |                 | Chronic                 |
| exposure:  | effect                               | local  | effect s | ystemic | stemic effect local effect syste                        |                   | effect systemic |                         |



Page 6 of 17

| Trading na    | ame:                  | OIL RED O REAGENT                       |                  |  |          |            |                    |   |     |
|---------------|-----------------------|---|------------------|--|----------|------------|--------------------|---|-----|
| Product co    | ode: (                | ORO-OT-X**                              | Revisi           | on date:   | 1        | 4 November | · 2022             | Version:                                | 5   |
|               | :                     |   | :                |  | *        |            |                    | :                                       | 8   |
| Oral          | -                     |   | -                | -  |          |            | -                  |   |     |
| Inhalation    | -                     | -                                       | -                | -  |          |            | 500 mg/            | /m³ (propan-2-                          | ol) |
| Dermal        | -                     |   | -                | -  |          |            | 888 mg/<br>(propan | /kg bw/day<br>-2-ol)                    |     |
| Critical phys | sical parar           | meters: solubility,                     | flammability, co | rrosivity:   |          | -          |                    |   |     |
|               |                       |   | Co               | onsumer  |          |            |                    |   |     |
| Route of      |                       | Acute                                   | Acute            |  | Chro     | onic       |                    | Chronic                                 |     |
| exposure:     |                       | effect local                            | effect systemi   | ic   | effect   | local      | е                  | ffect systemic                          |     |
| Oral          |                       | -                                       | -                | -  |          |            | 26 mg/k<br>(propan | kg bw/day<br>-2-ol)                     |     |
| Inhalation    |                       | -                                       | -                | -  |          |            | 89 mg/r            | n³ (propan-2-o                          | ol) |
| Dermal        |                       | -                                       | -                | -  |          |            | 319 mg/            | /kg (propan-2-                          | ol) |
| PNEC          |                       |   |                  |  |          |            |                    |   |     |
| Environmer    | ntal protec           | tion target                             |                  | PNEC   |          |            |                    |   |     |
| Fresh water   | -                     |   |                  | no information available   |          |            |                    |   |     |
| Freshwater    | sediments             | 5                                       |                  | no information available   |          |            |                    |   |     |
| Marine wat    | er                    |   |                  | no inform  | nation   | available  |                    |   |     |
| Marine sedi   | iments                |   |                  | no information available   |          |            |                    |   |     |
| Food chain    |                       |   |                  | no information available   |          |            |                    |   |     |
| Microorgan    | nisms in se           | wage treatment                          |                  | no information available   |          |            |                    |   |     |
| Soil (agricul | ltural)               |   |                  | no inform  | nation   | available  |                    |   |     |
| Air           |                       |   |                  | no information available   |          |            |                    |   |     |
|               |                       |   |                  |  |          |            |                    |   |     |
| 8.2           | Exposure              | e controls                              |                  |  |          |            |                    |   |     |
| 8.2.1.        | Appropr               | iate engineering o                      | controls         |  |          |            |                    |   |     |
|               |                       | ce/mixture relatec<br>exposure during i |                  | Use the product in well ventilated rooms. Use persona<br>protective equipment. Do not eat, drink or smoke in the<br>workspace. |          |            |                    |   |     |
|               | Structura<br>exposure | al measures to pre<br>e:                | event            | In accordance with Section 7.  |          |            |                    |   |     |
|               | Organiza<br>exposure  | ational measures t<br>e:                | to prevent       | Organization of work in order to reduce other worker's influence during work process.  |          |            |                    | ''S                                     |     |
|               | Technica              | al measures to pre                      | event exposure:  | concentra  | ation le | •          | ow permi           | order to keep<br>tted levels. Sec<br>J. |     |
| 8.2.2.        | Personal              | protection equip                        | ment             |  |          |            |                    |   |     |



Page 7 of 17

| Trading name:                     |                 | OIL RED O REAGENT  |   |   |                 |        |  |  |  |
|-----------------------------------|-----------------|--|---|---|-----------------|--------|--|--|--|
| Product                           |                 | ORO-OT-X**   | Revision date:  | 14 November 2022  | Version:        | 5      |  |  |  |
| 8.2.2.1. Eye and face protection: |                 | Safety glasses that stick to face (EN 166) or visor in case of lower<br>levels of concentration in air; protective gas mask that covers the<br>entire face in case of higher levels of concentration in air. |   |   |                 |        |  |  |  |
| 8.2.2.2.                          | Skin p          | protection   |   |   |                 |        |  |  |  |
|                                   | Hand            | protection:  | Regulation (EU) 20<br>Full contact:<br>Glove mate<br>Glove thick<br>Time until p<br>Splash contact:<br>Glove mate<br>Glove thick  | ves have to satisfy the speci<br>16/425 and the related star<br>rial: butyl rubber<br>ness: ≥ 0.50 mm<br>perforation: > 480 min<br>rial: nitrile rubber<br>ness: 0.4 mm<br>igh time: 35 min |                 |        |  |  |  |
|                                   | Other           | skin protection:   | During everyday work use antistatic clothing (EN 13688) and<br>suitable footwear, such as rubber boots (EN 20345) or shoes<br>cover the entire foot. In case of spilling hazard, use clothing<br>of impermeable material suitable for protection from liquid<br>chemicals (Viton, PVC, himex) and footwear made from the s<br>material. |   |                 |        |  |  |  |
| 8.2.2.3.                          | Respi           | ratory protection:   | If the concentration level exceeds the GVI values (or because of inadequate ventilation), use a filter for organic vapors, type "A" (boiling point >65°C) according to EN 14387.  |   |                 |        |  |  |  |
| 8.2.2.4.                          | Thern           | nal hazards:   | No information ava  | ailable   |                 |        |  |  |  |
| 8.2.3.                            | Enviro          | onmental exposure controls   |   |   |                 |        |  |  |  |
|                                   |                 | ance/mixture related<br>ures to prevent exposure:  | See Section 6   |   |                 |        |  |  |  |
|                                   | Struct<br>expos | ural measures to prevent<br>sure:  | Use modern equip  | Use modern equipment.   |                 |        |  |  |  |
|                                   | -               | nisational measures to<br>nt exposure:   | Adapt the work pro<br>workplace.  | ocess to the required worki   | ng conditions o | of the |  |  |  |
|                                   | Techr<br>expos  | nical measures to prevent sure:  | See Section 6   |   |                 |        |  |  |  |

| SECTI | SECTION 9. Physical and chemical properties           |                          |                          |  |  |  |
|-------|---|--------------------------|--------------------------|--|--|--|
| 9.1   | Information on basic physical and chemical properties |                          |                          |  |  |  |
|       |   | Value                    | Method                   |  |  |  |
|       | Physical state:                                       | liquid                   | No information available |  |  |  |
|       | Colour:   | red                      | No information available |  |  |  |
|       | Odour/odour threshold:                                | no information available | No information available |  |  |  |



Page 8 of 17

| Trading name: |            | OIL RED C      | ) REAGENT        |          |   |
|---------------|------------|----------------|------------------|----------|---|
| Product code: | ORO-OT-X** | Revision date: | 14 November 2022 | Version: | 5 |

|   | 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:  | 18 °C                          | 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<br>No information available |  |  |
|   | Kinematic viscosity:                                      | No information available       |  |  |  |
|   | Solubility:   | No information available       | No information available                             |  |  |
|   | Partition coefficient n-<br>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   |                                |  |  |  |
|   | Ignition temperature: 425 °C                              |                                |  |  |  |
|   | Product is not explosive. However,                        | formation of explosive air/vap | our mixtures are possible.                           |  |  |

| SECTI | ON 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 (room temperature). |
| 10.3  | Possibility of hazardous reactions: | No dangerous reactions known.   |
| 10.4  | Conditions to avoid:                | Avoid heat, sparks, open flames and other ignition sources.   |
| 10.5  | Incompatible materials:             | Acids, bases, oxidants.   |
| 10.6  | Hazardous decomposition products:   | Carbon monoxide and carbon dioxide.   |

| SECTION 11. Toxic                         | SECTION 11. Toxicological information |                  |  |               |             |  |  |  |  |  |  |
|---|---------------------------------------|------------------|--|---------------|-------------|--|--|--|--|--|--|
| 11.1 Information on toxicological effects |                                       |                  |  |               |             |  |  |  |  |  |  |
| Acute toxicity:                           |                                       |                  |  |               |             |  |  |  |  |  |  |
| Route of exposure:                        | Method                                | Species          | Dose LD <sub>50</sub> /LC <sub>50</sub><br>or ATE <sub>mix</sub> | Exposure time | Results     |  |  |  |  |  |  |
| Oral:                                     | -                                     | rat (2-propanol) | LD <sub>50</sub>   | -             | 5.840 mg/kg |  |  |  |  |  |  |



Page 9 of 17

|                                  |                          |                                  |                              |         |                                |                          | Pag               | je 9 of 17           |         |
|----------------------------------|--------------------------|----------------------------------|------------------------------|---------|--------------------------------|--------------------------|-------------------|----------------------|---------|
| Trading name:                    |                          |                                  | OIL F                        | RED O   | REAGENT                        |                          |                   |                      |         |
| Product code:                    | ORO-OT-X**               | Re                               | evision dat                  | te:     | 14 Novei                       | mber 2022                | V                 | ersion:              | 5       |
| Dermal:                          | _                        | rabbit (2 propa                  | nall                         | חו      |                                |                          |                   | 12 000 -             | ~~~//~~ |
| Inhalation:                      | -                        | rabbit (2-propa<br>rat (2-propan | •                            |         |                                | -<br>4 h                 |                   | 12.800 r<br>37.5 m   | ng/l -  |
|                                  |                          |                                  |                              | 2030    |                                |                          |                   | vap                  | or      |
| Specific                         | target organ toxici      | ty – single expo                 | osure (STO                   | T SE):  |                                |                          |                   |                      |         |
|                                  |                          | ific effects                     |                              | -       | Target orgar                   | n l                      |                   | Note                 |         |
| Oral:                            | No informatior           |                                  | N                            |         | mation availa                  |                          | -                 |                      |         |
| Dermal:                          | No information           | n available                      | N                            | o infor | mation availa                  | able                     | -                 |                      |         |
| Inhalation:                      | No informatior           | n available                      | N                            | o infor | mation availa                  | ania                     | may ca<br>or dizz | ause drow<br>riness  | siness  |
|                                  |                          |                                  |                              |         |                                | · · ·                    |                   |                      |         |
| Aspiratio                        | on hazard:               | N                                | lo informat                  | ion ava | ailable.                       |                          |                   |                      |         |
|                                  |                          |                                  |                              |         |                                |                          |                   |                      |         |
| Irritation                       | and corrosion            |                                  |                              |         |                                |                          |                   |                      |         |
|                                  | Exposu                   | re time                          | Species                      |         | Evaluation                     | Method                   |                   | Note                 |         |
| Skin<br>corrosion/irritatic      | on: -                    | -                                |                              | -       |                                | -                        | -                 |                      |         |
| Serious eye<br>damage/irritatior | -                        | ra                               | abbit                        | -       |                                | -                        |                   | ses serious<br>ation | s eye   |
| Sensitiza                        | ation                    |                                  |                              |         |                                |                          |                   |                      |         |
| Skin sensitization               | : No in                  | formation avail                  | able.                        |         |                                |                          |                   |                      |         |
| Respiratory sensi                | tization: No in          | formation avail                  | able.                        |         |                                |                          |                   |                      |         |
| <del>_</del>                     | :                        |                                  |                              |         |                                |                          |                   |                      |         |
| Symptor                          | ms related to the p      | hysical, chemic                  | al and toxi                  | cologic | al characteri                  | stics                    |                   |                      |         |
| Oral exposure:                   | No informat              | ion available.                   |                              |         |                                |                          |                   |                      |         |
| Dermal exposure                  | : No informat            | ion available.                   |                              |         |                                |                          |                   |                      |         |
| Inhalation exposu                | ure: No informat         | ion available.                   |                              |         |                                |                          |                   |                      |         |
| Eye exposure:                    | No informat              | ion available.                   |                              |         |                                |                          |                   |                      |         |
| Repeate                          | d dose toxicity (sub     | pacute, subchro                  | onic, chroni                 | ic)     |                                |                          |                   |                      |         |
|                                  | Dose                     | Exposure<br>time                 | Species                      | ,       | Method                         | Evaluat                  | ion               | Note                 |         |
| Subacute oral                    | No information available | No<br>information<br>available   | No<br>informati<br>available |         | No<br>information<br>available | No<br>informa<br>availab |                   | -                    |         |



Page 10 of 17

| Trading name:                                  |                          |                     |                                | OIL RED                        | O REAGENT                      |                                |               |      |
|--|--------------------------|---------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------|------|
| Product code:                                  | OF                       | RO-OT-X**           | F                              | Revision date:                 | 14 Novem                       | ber 2022                       | Version:      | 5    |
| 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<br>information<br>available | n -           |      |
| Subacute<br>inhalation                         | No<br>availa             | information<br>able | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | n -           |      |
| Subchronic oral                                | No<br>availa             | information<br>able | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | n -           |      |
| 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<br>information<br>available | n -           |      |
| Subchronic inhalation                          | No<br>availa             | information<br>able | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | n -           |      |
| Chronic oral                                   | No information available |                     | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | n -           |      |
| Chronic dermal                                 | No<br>availa             | information<br>able | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | No<br>information<br>available | n -           |      |
| 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<br>information<br>available | n -           |      |
| Specific                                       | target                   | organ toxicit       | y – repeated                   | exposure (STOT                 | RE):                           |                                |               |      |
|  |                          |                     | Specific eff                   | ects                           | Target o                       | rgan                           | Note          |      |
| Subacute oral                                  |                          | No informa          | ition availabl                 | e                              | No information                 | n available                    | -             |      |
| Subacute dermal                                |                          | No informa          | ition availab                  | е                              | No information                 | n available                    | -             |      |
| Subacute inhalat                               | ion                      | No informa          | tion availab                   | e                              | No information                 | n available                    | -             |      |
| Subchronic oral                                |                          | No informa          | ition availab                  | е                              | No information                 | n available                    | -             |      |
| Subchronic derm                                | nal                      |                     | ition availabl                 |                                | No information                 | n available                    | -             |      |
| Subchronic inhalation No information available |                          |                     |                                | No information                 |                                | -                              |               |      |
| Chronic oral No information available          |                          |                     |                                | No information                 |                                | -                              |               |      |
| Chronic dermal                                 |                          |                     | tion availabl                  |                                | No information                 |                                | -             |      |
| Chronic inhalatio                              | n                        | No informa          | ition availabl                 | e                              | No information                 | n available                    | -             |      |
|  |                          |                     |                                |                                |                                |                                |               |      |
|  |                          |                     | y; mutagenic                   | ity; reproductive              |                                |                                |               |      |
| Carcino  | genicit                  | y:                  |                                | Based on avail                 | able data, the cla             | issification cri               | teria are not | met. |



Page 11 of 17

| Trading | g name:            |                          |               | OIL RED   | O REAGENT                     |                    |        |  |  |  |  |  |  |
|---------|--------------------|--------------------------|---------------|---|-------------------------------|--------------------|--------|--|--|--|--|--|--|
| Produc  | ct code:           | ORO-OT-X**               | Revis         | ion date:   | 14 November 2022              | 2 Version: 5       |        |  |  |  |  |  |  |
|         | 1                  |                          |               |   |                               |                    |        |  |  |  |  |  |  |
|         | Mutageni           | city <i>in vitro</i> :   | Ba            | Based on available data, the classification criteria are not met. |                               |                    |        |  |  |  |  |  |  |
|         | Genotoxi           | city:                    | Ва            | sed on availa   | ble data, the classification  | criteria are not i | met.   |  |  |  |  |  |  |
|         | Mutageni           | city <i>in vivo</i> :    | Ва            | sed on availa   | ble data, the classification  | criteria are not i | met.   |  |  |  |  |  |  |
|         | Germ cell          | mutagenicity:            | Ba            | sed on availa   | ble data, the classification  | criteria are not i | met.   |  |  |  |  |  |  |
|         | Reproduc           | tive toxicity:           | Ba            | Based on available data, the classification criteria are not met. |                               |                    |        |  |  |  |  |  |  |
|         |                    |                          |               |   |                               |                    |        |  |  |  |  |  |  |
|         | Summary properties |                          | the CMR       | Based on a met.   | available data, the classific | ation criteria a   | re not |  |  |  |  |  |  |
|         |                    |                          |               |   |                               |                    |        |  |  |  |  |  |  |
| 11.2    | Informatio         | on on other hazards:     |               |   |                               |                    |        |  |  |  |  |  |  |
| 11.2.1. | Endocrine          | e disrupting properties: |               |   |                               |                    |        |  |  |  |  |  |  |
|         | No knowi           | n endocrine disrupting p | properties th | erties that affect human health.                                  |                               |                    |        |  |  |  |  |  |  |
| 11.2.2. | Other info         | ormations:               |               |   |                               |                    |        |  |  |  |  |  |  |
|         | -                  |                          |               |   |                               |                    |        |  |  |  |  |  |  |

| SECTION 12. Ecologie            | cal informat     | ion              |                          |   |                             |      |
|---------------------------------|------------------|------------------|--------------------------|---|-----------------------------|------|
| 12.1 Toxicity                   |                  |                  |                          |   |                             | _    |
| Acute (short-term)<br>toxicity  | Dose             | Exposure<br>time | Species                  | Method  | Evaluation                  | Note |
| Fish                            | LC <sub>50</sub> | 96 hours         | Pimephales<br>promelas   | No<br>information<br>available                    | 9.640 mg/l (2-<br>propanol) | -    |
| Crustacea:                      | EC <sub>50</sub> | 48 hours         | Daphnia<br>magna         | No<br>information<br>available<br>13.29<br>(2-pro |                             | -    |
| Algae/aquatic plants            | IC <sub>50</sub> | 4 days           | algae                    | No<br>information<br>available                    | >1,000 mg/l<br>(2-propanol) | -    |
| Other organisms                 | -                | -                | -                        | -   | -                           | -    |
| Chronic (long-term)<br>toxicity | 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<br>available | -    |
| Crustacea:                      | EC <sub>50</sub> | 48 hours         | No information available | No<br>information<br>available                    | No information available    | -    |



Page 12 of 17

| Trading nar                           | ne:           |                                  |           |       | OIL RED                     | O REAGENT                      |                        |                      |          |      |
|---------------------------------------|---------------|----------------------------------|-----------|-------|-----------------------------|--------------------------------|------------------------|----------------------|----------|------|
| Product coo                           | de: C         | ORO-OT-X*                        | *         | R     | evision date:               | 14 Novem                       | nber 2022              | Vers                 | ion:     | 5    |
| Algae/aquati                          | c plants      | IC <sub>50</sub>                 | 72 hours  |       | No information<br>available | No<br>information<br>available | No inform<br>available | _                    |          |      |
| Other organi                          | sms           | -                                | -         | -     | -                           | -                              | -                      |                      | -        |      |
|                                       |               | and degrada                      | bility    |       |                             |                                |                        |                      |          |      |
| Abio                                  | otic degr     |                                  |           |       |                             |                                |                        |                      |          |      |
|                                       | De            | egradation h                     | alf-lives |       | Method                      | Evaluatio                      |                        | Ν                    | lote     |      |
| Marine water No information available |               |                                  |           |       | information<br>ilable       | No informatio<br>available     | n -                    |                      |          |      |
| Fresh water No information available  |               |                                  |           |       | information<br>ilable       | No informatio<br>available     | n -                    |                      |          |      |
| Air No information availabl           |               |                                  |           |       | information<br>ilable       | No informatio<br>available     | n -                    | -                    |          |      |
| Soil No information available         |               |                                  |           |       | information<br>ilable       | No informatio<br>available     |                        |                      |          |      |
| Biod                                  | legradati     | ion                              |           |       |                             |                                |                        |                      |          |      |
| % Degrada                             | ation         | Time (                           | days)     |       | Method                      | Evaluatio                      | n                      | ١                    | lote     |      |
| 53 %                                  |               | 5 days                           | ays       |       | obic                        | No information<br>available    |                        | Readily biodegradabl |          | able |
|                                       |               | itive potentia<br>er partition c |           | log K | ow)                         |                                |                        |                      |          |      |
| Value                                 | Conce         | entration                        | рН        | °C    | Method                      | Evalu                          | ation                  |                      | Note     |      |
| ≤ 4                                   | -             |                                  | -         | -     | -                           | -                              |                        |                      | expected |      |
|                                       |               |                                  |           |       |                             |                                |                        |                      |          |      |
| Biod                                  | oncentra      | ation factor (                   | BCF)      |       |                             |                                |                        |                      |          |      |
| Value                                 | Value Species |                                  |           |       | Method                      | Evaluati                       | on                     |                      | Note     |      |
|                                       | on N          | No in                            | formation | No    | information                 | No information available       |                        |                      |          |      |



Page 13 of 17

| Trading name: | OIL RED O REAGENT |                |                  |          |   |  |  |  |
|---------------|-------------------|----------------|------------------|----------|---|--|--|--|
| Product code: | ORO-OT-X**        | Revision date: | 14 November 2022 | Version: | 5 |  |  |  |

|                   | Chro   | onic ecoto         | xicity                     | I _ I                             |                      |                             |                          |                              |    |                  |      |
|-------------------|--|--------------------|----------------------------|-----------------------------------|----------------------|-----------------------------|--------------------------|------------------------------|----|------------------|------|
|                   | Va   | lue                | Dose                       | Exposure<br>time                  | Sp                   | Species Metho               |                          | nod                          | Ev | aluation         | Note |
| Chroni            | c toxic                                      | ity on fish        | LC <sub>50</sub>           | No<br>information<br>available    | No<br>infor<br>avail | mation<br>able              | No<br>informa<br>availab |                              | -  | rmation<br>lable | -    |
| Chroni<br>crustac |  | city on<br>aphnia) | EC <sub>50</sub>           | No<br>information<br>available    | No<br>infor<br>avail | mation<br>able              | No<br>inform<br>availab  |                              | _  | rmation<br>lable | -    |
| 12.4              | Mol  | oility in soi      |                            |                                   |                      |                             |                          |                              |    |                  |      |
|                   | Kno  | wn or pred         | dicted distributi          | on in environm                    | ental                | compart                     | ments:                   |                              |    |                  |      |
|                   | No   | informatio         | n available                |                                   |                      |                             |                          |                              |    |                  |      |
|                   | Surf   | ace tensio         | n:                         |                                   |                      |                             |                          |                              |    |                  |      |
|                   |  | Value              | °C                         | Concentratio                      |                      | n Method                    |                          |                              |    | Note             |      |
|                   | NoNoinformationinformationavailableavailable |                    | information                | No information available          |                      | No information<br>available |                          |                              | -  |                  |      |
|                   | Ads  | orption / c        | lesorption                 |                                   |                      |                             |                          |                              |    |                  |      |
| Transp            | ort  | -                  | coefficient<br>'s constant | log Kow                           |                      | Evaporation rate            |                          | Method                       |    | bd               | Note |
| Soil-wa           | ater   | No<br>available    | information                | No information available          |                      | No information available    |                          | n No informatio<br>available |    | ation            | -    |
| Water-            | air  | No<br>available    | information                | No informatic<br>available        |                      | lo inform<br>vailable       | ation                    | No ir<br>availa              |    | ation            | -    |
| Soil-air          |  | No<br>available    | information                | No informatic<br>available        |                      | lo inform<br>vailable       | ation                    | No ir<br>availa              |    | ation            | -    |
| 12.5.             | Res  | ults of PBT        | and vPvB asses             | ssment                            |                      |                             |                          |                              |    |                  |      |
|                   |  |                    |                            | ins no compone<br>and very bioace |                      |                             |                          |                              |    |                  |      |
|                   |  |                    |                            |                                   |                      |                             |                          |                              |    |                  |      |



Page 14 of 17

|              |   |                        | Page 14 of 17             |   |                 |      |  |  |  |  |  |  |  |
|--------------|---|------------------------|---------------------------|---|-----------------|------|--|--|--|--|--|--|--|
| Trading na   | me:   |                        | OIL RED                   | O REAGENT   |                 |      |  |  |  |  |  |  |  |
| Product co   | de:   | ORO-OT-X**             | Revision date:            | 14 November 2022  | Version:        | 5    |  |  |  |  |  |  |  |
| acc          | ording  | to REACH Article 57    | •                         | nsidered to have endocrine<br>ed regulation (EU) 2017/210 |                 |      |  |  |  |  |  |  |  |
| 12.7. Oth    | Other adverse effects   |                        |                           |   |                 |      |  |  |  |  |  |  |  |
| No           | further   | relevant informatio    | n available.              |   |                 |      |  |  |  |  |  |  |  |
| SECTION 13   | . Disp  | osal considerations    |                           |   |                 |      |  |  |  |  |  |  |  |
| 13.1 W       | /aste tr  | reatment methods       |                           |   |                 |      |  |  |  |  |  |  |  |
| 13.1.1. Pi   | roduct,   | /Packaging disposal:   |                           |   |                 |      |  |  |  |  |  |  |  |
|              | Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.  |                        |                           |   |                 |      |  |  |  |  |  |  |  |
|              | Waste codes/waste designations according to Law:<br>Packaging that contains residual hazardous substances or is contaminated with hazardous substances  |                        |                           |   |                 |      |  |  |  |  |  |  |  |
| Pa           | ackagir   | ng that contains resid | dual hazardous substances | or is contaminated with ha                                | zardous substar | nces |  |  |  |  |  |  |  |
| 13.1.3. W    | Waste treatment – relevant information:   |                        |                           |   |                 |      |  |  |  |  |  |  |  |
| N            | o infor   | mation available       |                           |   |                 |      |  |  |  |  |  |  |  |
| 13.1.4. Se   | Sewage disposal – relevant information:   |                        |                           |   |                 |      |  |  |  |  |  |  |  |
| W            | Waste must not be disposed of into the sewage system.   |                        |                           |   |                 |      |  |  |  |  |  |  |  |
| 13.1.5. O    | Other disposal recommendations:   |                        |                           |   |                 |      |  |  |  |  |  |  |  |
| a            | 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. R    | elevant   | t Community provisi    | ons:                      |   |                 |      |  |  |  |  |  |  |  |
| D            | Disposal must be made according to official regulations.  |                        |                           |   |                 |      |  |  |  |  |  |  |  |
| SECTION 14   | TRAN  | ISPORT INFORMAT        | ION                       |   |                 |      |  |  |  |  |  |  |  |
| Trai         | nsporti   | ng/shipment by road    | d (ADR)                   |   |                 |      |  |  |  |  |  |  |  |
| UN number:   |   |                        | 1219                      |   |                 |      |  |  |  |  |  |  |  |
| UN proper s  | hippin  | g name:                | Isopropanol               |   |                 |      |  |  |  |  |  |  |  |
| Transport ha | zard cl   | lass(es):              | 3                         |   |                 |      |  |  |  |  |  |  |  |
| Packing grou | ıp:   |                        | II                        |   |                 |      |  |  |  |  |  |  |  |
| Environment  | ally ha   | zardous:               | -                         |   |                 |      |  |  |  |  |  |  |  |



Page 15 of 17

| Trading name: |            | OIL RED O      | REAGENT          |          |   |
|---------------|------------|----------------|------------------|----------|---|
| Product code: | ORO-OT-X** | Revision date: | 14 November 2022 | Version: | 5 |

| Transporting/shipment by rail (R<br>UN number:                            | ID)<br>1219     |
|---|-----------------|
|   | 1219            |
|   |                 |
| UN proper shipping name:  | Isopropanol     |
| Transport hazard class(es):   | 3               |
| Packing group:  | П               |
| Environmentally hazardous:  | -               |
| Special precautions for user:   | -               |
| Inland waterway transport (ADN  | )               |
| UN number:  | 1219            |
| UN proper shipping name:  | Isopropanol     |
| Transport hazard class(es):   | 3               |
| Packing group:  | П               |
| Environmentally hazardous:  | -               |
| Special precautions for user:   | -               |
| Transporting/shipment by sea (II  | MDG)            |
| UN number:  | 1219            |
| UN proper shipping name:  | Isopropanol     |
| Transport hazard class(es):   | 3               |
| Packing group:  | П               |
| 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:  | 1219            |
| UN proper shipping name:  | Isopropanol     |
| Transport hazard class(es):   | 3               |
| Packing group:  | П               |
| 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



Page 16 of 17

| Trading name: | OIL RED O REAGENT |                |                  |          |   |
|---------------|-------------------|----------------|------------------|----------|---|
| Product code: | ORO-OT-X**        | Revision date: | 14 November 2022 | Version: | 5 |

|     | EU regulations   |  |  |  |  |
|-----|--|--|--|--|--|
|     | Authorization and/or restrictions of use   |  |  |  |  |
|     | Authorizations:  | -  |  |  |  |
|     | Restrictions:  | -  |  |  |  |
|     | Other EU regulations:  | <ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council 18 December 2006 concerning the Registration, Evaluation, Authorisation ar Restriction of Chemicals (REACH), establishing a European Chemicals Agence amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EE 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 200 on the limitation of emissions of volatile organic compounds due to the use of organ solvents in certain paints and varnishes and vehicle refinishing products ar amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safe 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 2008 on classification, labelling and packaging of substances and mixture amending and repealing Directives 67/548/EEC and 1999/45/EC, and amendir Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certa 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<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   |  |  |  |
| 5.2 | Chemical safety assessment   |  |  |  |  |
|     | None   |  |  |  |  |

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



Page 17 of 17

| Trading name:            |                             | OIL RED O REAGENT   |   |                  |   |   |    |  |
|--------------------------|-----------------------------|---|---|------------------|---|---|----|--|
| Product code: ORO-OT-X** |                             |   | Revision date:  | 14 November 2022 | Version:  | 5 |    |  |
| 16.2                     | Abbreviations and acronyms: |   | ADR: Accord relatif au transport international des marchandises dangereuses par<br>route (European Agreement Concerning the International Carriage of Dangerous<br>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 Chemicals |                  |   |   |    |  |
| 16.3.                    |                             |   | terature references and<br>e of data: Manufacturer's MSDS file.   |                  |   |   |    |  |
| 16.4.                    |                             | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) |   |                  |   |   | 2) |  |
| Classification           |                             | Classification procedure<br>-   |   |                  |   |   |    |  |
| 16.5.                    | Rele                        | evant F   | l statements (numb  | er and           | full text)  |   |    |  |
|                          | H:                          | 225<br>319<br>336   |   | Cause            | r flammable liquid and<br>s serious eye irritation<br>ause drowsiness or di |   |    |  |
| 16.6.                    | Trai                        | ning a  | dvice:  | -                |   |   |    |  |
| 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