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|---------------|---------------------------------------------|----------------------|-------------|----------|---|
| Trade name:   | <b>GLUTARALDEHYDE, 4% BUFFERED SOLUTION</b> |                      |             |          |   |
| Product code: | G4-OT-X**                                   | Date of compilation: | 21 Dec 2022 | Version: | 4 |

| <b>SECTION 1: Identification of the substance/mixture and of the company/undertaking</b> |                                                                               |                                                                                                                                          |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1.                                                                                     | Product identifier                                                            |                                                                                                                                          |
|                                                                                          | Trade name:                                                                   | GLUTARALDEHYDE, 4% BUFFERED SOLUTION                                                                                                     |
|                                                                                          | Chemical name:                                                                | -                                                                                                                                        |
|                                                                                          | Catalogue number:                                                             | G4-OT-X**                                                                                                                                |
| 1.2.                                                                                     | Relevant identified uses of the substance or mixture and uses advised against |                                                                                                                                          |
|                                                                                          | Uses:                                                                         | For use with Sudan Black B kit.                                                                                                          |
|                                                                                          | Uses advised against:                                                         | Only the identified uses are advised                                                                                                     |
|                                                                                          | Reason why uses advised against:                                              | The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes |
| 1.3.                                                                                     | Details of the supplier of the safety data sheet                              |                                                                                                                                          |
|                                                                                          | Supplier:                                                                     | BioGnost Ltd.                                                                                                                            |
|                                                                                          | Address:                                                                      | Medjugorska 59, Zagreb                                                                                                                   |
|                                                                                          | Telephone number:                                                             | +385 1 2409997                                                                                                                           |
|                                                                                          | Telefax:                                                                      | +385 1 2404039                                                                                                                           |
|                                                                                          | e-mail of competent person:                                                   | <a href="mailto:msds@biognost.hr">msds@biognost.hr</a>                                                                                   |
|                                                                                          | National contact:                                                             | -                                                                                                                                        |
| 1.4.                                                                                     | Emergency telephone numbers                                                   |                                                                                                                                          |
|                                                                                          | National Protection and Rescue Directorate:                                   | 112                                                                                                                                      |
|                                                                                          | Medical information:                                                          | +385 1 2348 342                                                                                                                          |
|                                                                                          | Other information:                                                            | -                                                                                                                                        |

| <b>SECTION 2. HAZARDS IDENTIFICATION</b>                            |                                                                |                                      |
|---------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------|
| 2.1.                                                                | Classification of the substance or mixture                     |                                      |
| 2.1.1.                                                              | Classification according to Regulation (EC) No 1272/2008 (CLP) |                                      |
|                                                                     | Hazard class and category code:                                | Hazard statement*:                   |
|                                                                     | Acute Tox. 4                                                   | H302                                 |
|                                                                     | Skin Sens. 1                                                   | H317                                 |
|                                                                     | Acute Tox. 4                                                   | H332                                 |
|                                                                     | Resp. Sens. 1                                                  | H334                                 |
| 2.1.2.                                                              | Additional information                                         |                                      |
|                                                                     | -                                                              |                                      |
| * For full text of Hazard- and EU Hazard-statements: see SECTION 16 |                                                                |                                      |
| 2.2.                                                                | Label elements                                                 |                                      |
|                                                                     | Product identification:                                        | GLUTARALDEHYDE, 4% BUFFERED SOLUTION |
|                                                                     | Identification number:                                         | -                                    |

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| Authorisation number:                 | -                                                                                                                                                                                                                                                                                                                                                                            |
| Hazard pictograms:                    |  <br>GHS07                      GHS08                                                                                                                                                                    |
| Signal word:                          | Danger                                                                                                                                                                                                                                                                                                                                                                       |
| Hazard statement:                     | H302 Harmful if swallowed.<br>H317 May cause an allergic skin reaction.<br>H332 Harmful if inhaled.<br>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.                                                                                                                                                                                       |
| Precautionary statements:             | P280 Wear protective gloves/protective clothing/eye/protection/face protection.<br>P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.<br>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| Supplemental hazard information (EU): | -                                                                                                                                                                                                                                                                                                                                                                            |

|                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.3. Other hazards                                                                                                                                                                                 |
| This substance/mixture contains no components considered to be either persistent, bioaccumulative and 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 number             | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP)                                                                         |
|-----------------------------------------|-----------------------|-----------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 111-30-8/<br>203-856-5/<br>605-022-00-X | -                     | 4- 5 %                      | glutaraldehyde      | Acute. Tox. 3; H331<br>Acute Tox. 3; H301<br>Skin Corr. 1B; H314<br>Resp. Sens. 1; H334<br>Skin Sens. 1; H317<br>Aquatic Acute 1; H400 |

**SECTION 4. First aid measures**

|               |                                             |                      |             |          |   |
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|             |                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>4.1.</b> | <b>Description of first aid measures</b>                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|             | General notes:                                                                    | Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Immediately remove any clothing soiled by the product.                                                                                                                                                                                                                                                                                                          |
|             | Following inhalation:                                                             | Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.                                                                                                                                                                                                                                                                                        |
|             | Following skin contact:                                                           | Remove contaminated clothing. Immediately wash with plenty of water and soap and rinse thoroughly. If symptoms persist, consult a doctor.                                                                                                                                                                                                                                                                                                                                                         |
|             | Following eye contact:                                                            | Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.                                                                                                                                                                                                                                                                                                                                                                                                  |
|             | Following ingestion:                                                              | DO NOT induce vomiting. If symptoms persist, consult a doctor.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Self-protection of the first aider                                                | Avoid direct contact with the chemical; use appropriate protective equipment described in Section 8.                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>4.2.</b> | <b>Most important symptoms and effects, both acute and delayed</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|             | Following inhalation:                                                             | High concentration vapor inhalation may cause headache, dizziness, difficult breathing and unconsciousness.                                                                                                                                                                                                                                                                                                                                                                                       |
|             | Following skin contact:                                                           | Causes skin irritation, redness, swelling. Prolonged or repeated contact causes defatting and dry skin.                                                                                                                                                                                                                                                                                                                                                                                           |
|             | Following eye contact:                                                            | Vapors irritate eyes. Splashing may cause irritation and redness.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|             | Following ingestion:                                                              | Nausea, vomiting (danger of aspiration), diarrhoea. Aspiration may cause headache, vertigo, nausea, dazed feeling-unconsciousness/coma, possible hypothermia, reactions to the heart/circulatory system such as vasodilation (flush), hypotension, arrhythmia (possible ventricular fibrillation through cardiac sensitization), danger of central respiratory paralysis or of cardiac arrest; functional disturbance to the liver and kidneys and persistent disturbance to the CNS as sequelae. |
| <b>4.3.</b> | <b>Indication of any immediate medical attention and special treatment needed</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|             | No further relevant information available.                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                         |                                                                                              |                                                                                                         |
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| <b>SECTION 5. Firefighting measures</b> |                                                                                              |                                                                                                         |
| <b>5.1.</b>                             | <b>Extinguishing media</b>                                                                   |                                                                                                         |
|                                         | Suitable extinguishing media:                                                                | CO <sub>2</sub> , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
|                                         | Unsuitable extinguishing media:                                                              | water with full jet                                                                                     |
| <b>5.2.</b>                             | <b>Special hazards arising from the substance or mixture</b>                                 |                                                                                                         |
|                                         | Hazardous by products of fire:                                                               | Formation of toxic gases is possible during heating or in case of fire.                                 |
| <b>5.3.</b>                             | <b>Advice for firefighters</b>                                                               |                                                                                                         |
|                                         | Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. |                                                                                                         |

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| <b>5.4.</b> | <b>Additional information</b>                                                                                       |
|             | Collect contaminated firefighting water separately.<br>Do not contaminate the environment with extinguishing media. |

**SECTION 6. Accidental release measures**

|               |                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.1.</b>   | <b>Personal precautions, protective equipment and emergency procedures</b>                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>6.1.1.</b> | <b>For non-emergency personnel</b>                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|               | Protective equipment:                                                                                                                                           | Use personal protective equipment (see Section 8). Keep unprotected persons away.                                                                                                                                                                                                                                                                                                                                                            |
|               | Accident prevention methods:                                                                                                                                    | Evacuate members of all non-essential personnel and those members without protective equipment. Do not breathe in vapor, ensure adequate ventilation and avoid contact with skin and eyes. Remove all sources of sparks and ignition. Do not smoke.                                                                                                                                                                                          |
|               | Emergency procedures:                                                                                                                                           | Mark the area using proper signs.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>6.1.2.</b> | <b>For emergency responders:</b>                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|               | Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>6.2.</b>   | <b>Environmental precautions:</b>                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|               | Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.         |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>6.3.</b>   | <b>Methods and materials for containment and cleaning up</b>                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>6.3.1.</b> | Bundling, covering of drains; capping procedures:                                                                                                               | Sand or clay barriers.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>6.3.2.</b> | Cleaning up:                                                                                                                                                    | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and 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 involved materials with water. |
| <b>6.3.3.</b> | Other information:                                                                                                                                              | Do not use tools that may cause sparks.                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>6.4.</b>   | <b>Reference to other sections</b>                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|               | See Section 7 for information on safe handling.<br>See Section 8 for information on personal protection equipment.<br>See Section 13 for ,disposal information. |                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**SECTION 7. Handling and storage**

|               |                                      |
|---------------|--------------------------------------|
| <b>7.1.</b>   | <b>Precautions for safe handling</b> |
| <b>7.1.1.</b> | <b>Protection measures</b>           |

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| Measures to prevent fire:                                                | Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.                                     |
| Measures to prevent aerosol and dust generation:                         | Secure proper ventilation.                                                                                                                                                   |
| Measures to protect the environment:                                     | Prevent spilling into the sewage system and waterways.                                                                                                                       |
| Other measures:                                                          | -                                                                                                                                                                            |
| <b>7.1.2. Advice on general occupational hygiene:</b>                    |                                                                                                                                                                              |
|                                                                          | Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.                                                                             |
| <b>7.2. Conditions for safe storage, including any incompatibilities</b> |                                                                                                                                                                              |
| Technical measures and storage conditions:                               | Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, 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 be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.  |
| Further information on storage conditions:                               | Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10). |
| <b>7.3. Specific end use(s)</b>                                          |                                                                                                                                                                              |
| Recommendations:                                                         | -                                                                                                                                                                            |
| Industrial sector specific solutions:                                    | -                                                                                                                                                                            |

| <b>SECTION 8. Exposure controls/personal protection</b> |          |                                                      |                   |                         |
|---------------------------------------------------------|----------|------------------------------------------------------|-------------------|-------------------------|
| <b>8.1. Control parameters</b>                          |          |                                                      |                   |                         |
| Substance                                               | CAS No   | Occupational exposure limit values/short term values |                   | Biological limit values |
|                                                         |          | ppm                                                  | mg/m <sup>3</sup> |                         |
| Glutaraldehyde                                          | 111-30-8 | 0.05/0.05                                            | 0.2/0.2           | -                       |
| Substance:                                              | -        |                                                      |                   |                         |
| EC No:                                                  | -        | CAS No:                                              | -                 |                         |
| <b>DNEL</b>                                             |          |                                                      |                   |                         |

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| Industrial                                                           |                    |                       |                      |                         |
|----------------------------------------------------------------------|--------------------|-----------------------|----------------------|-------------------------|
| Route of exposure:                                                   | Acute effect local | Acute effect systemic | Chronic effect local | Chronic effect systemic |
| Oral                                                                 | -                  | -                     | -                    | -                       |
| Inhalation                                                           | -                  | -                     | -                    | -                       |
| Dermal                                                               | -                  | -                     | -                    | -                       |
| Critical physical parameters: solubility, flammability, corrosivity: |                    |                       | -                    |                         |

| Consumer           |                    |                       |                      |                         |
|--------------------|--------------------|-----------------------|----------------------|-------------------------|
| Route of exposure: | Acute effect local | Acute effect systemic | Chronic effect local | Chronic effect systemic |
| Oral               | -                  | -                     | -                    | -                       |
| Inhalation         | -                  | -                     | -                    | -                       |
| Dermal             | -                  | -                     | -                    | -                       |

| PNEC                               |                          |
|------------------------------------|--------------------------|
| Environmental protection target    | PNEC                     |
| 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 |
| Soil (agricultural)                | No information available |
| Air                                | No information available |

|               |                                                                                |                                                                                                          |
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| <b>8.2.</b>   | <b>Exposure controls</b>                                                       |                                                                                                          |
| <b>8.2.1.</b> | <b>Appropriate engineering controls</b>                                        |                                                                                                          |
|               | Substance/mixture related measures to prevent exposure during identified uses: | Use personal protective equipment. Do not eat, drink or smoke in the workspace.                          |
|               | Structural measures to prevent exposure:                                       | No information available                                                                                 |
|               | Organisational measures to prevent exposure:                                   | Organization of work in order to reduce other worker's influence during work process.                    |
|               | Technical measures to prevent exposure:                                        | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. |
| <b>8.2.2.</b> | <b>Personal protection equipment:</b>                                          |                                                                                                          |

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| 8.2.2.1. | Eye and face protection:                                | Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 8.2.2.2. | Skin protection                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|          | Hand protection:                                        | <p>Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.</p> <p>Full contact:</p> <p style="padding-left: 40px;">Glove material: Viton<br/> Glove thickness: 0.7 mm<br/> Break through time: 480 min</p> <p>Splash contact:</p> <p style="padding-left: 40px;">Glove material: Nitrile rubber<br/> Glove thickness: 0.4 mm<br/> Break through time: 35 min</p> |
|          | Other skin protection:                                  | Complete suit protecting against chemicals, flame retardant antistatic protective clothing (EN 13688). The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.                                                                                                                                                                                                                                                                                                                                                   |
| 8.2.2.3. | Respiratory protection:                                 | Where risk assessment shows air-purifying respirators are appropriate use type ABEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).                                                                                                                                                                                                                                                                                                |
| 8.2.2.4. | Thermal hazards:                                        | No information 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 to prevent exposure:            | Adapt the work process to the required working conditions of the workplace.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|          | Technical measures to prevent exposure:                 | See Section 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| <b>SECTION 9. Physical and chemical properties</b> |                                                       |        |                          |
|----------------------------------------------------|-------------------------------------------------------|--------|--------------------------|
| 9.1.                                               | Information on basic physical and chemical properties |        |                          |
|                                                    |                                                       | Value  | Method                   |
|                                                    | Physical state:                                       | liquid | No information available |

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|------|-----------------------------------------------------------|--------------------------|--------------------------|
|      | Colour:                                                   | colourless               | No information available |
|      | Odour/odour threshold:                                    | No information available | No information available |
|      | Melting point / freezing point:                           | No information available | No information available |
|      | Boiling point or initial boiling point and boiling range: | No information available | No information available |
|      | Flammability:                                             | No information available | No information available |
|      | Lower 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                                         |                          |                          |
|      | -                                                         |                          |                          |

| <b>SECTION 10.: Stability and reactivity</b> |                                     |                                                                        |
|----------------------------------------------|-------------------------------------|------------------------------------------------------------------------|
| 10.1.                                        | Reactivity:                         | No relevant information available.                                     |
| 10.2.                                        | Chemical stability:                 | The product is chemically stable under recommended storage conditions. |
| 10.3.                                        | Possibility of hazardous reactions: | No dangerous reactions known.                                          |
| 10.4.                                        | Conditions to avoid:                | Sources of heat, flames and sparks.                                    |
| 10.5.                                        | Incompatible materials:             | Strong oxidizing agents.                                               |
| 10.6.                                        | Hazardous decomposition products:   | Carbon monoxide.                                                       |

| <b>SECTION 11. Toxicological information</b> |        |         |                                                                                   |               |         |
|----------------------------------------------|--------|---------|-----------------------------------------------------------------------------------|---------------|---------|
| 11.1. Information on toxicological effects   |        |         |                                                                                   |               |         |
| Acute toxicity:                              |        |         |                                                                                   |               |         |
| Route of exposure:                           | Method | Species | Effective Dose<br>LD <sub>50</sub> /LC <sub>50</sub> or<br>ATE <sub>mixture</sub> | Exposure time | Results |



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| Oral:       | No information available | - | No information available | No information available | - |
| Dermal:     | No information available | - | No information available | No information available | - |
| Inhalation: | No information available | - | No information available | No information available | - |

|                                                             |                          |  |                          |  |      |
|-------------------------------------------------------------|--------------------------|--|--------------------------|--|------|
| Specific target organ toxicity - single exposure (STOT-SE): |                          |  |                          |  |      |
|                                                             | Specific effects         |  | Target organ             |  | Note |
| Oral:                                                       | No information available |  | No information available |  | -    |
| Dermal:                                                     | No information available |  | No information available |  | -    |
| Inhalation:                                                 | No information available |  | No information available |  | -    |

|                    |   |
|--------------------|---|
| Aspiration hazard: | - |
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|                               |               |         |            |        |                          |
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| Irritation and corrosion      |               |         |            |        |                          |
|                               | Exposure time | Species | Evaluation | Method | Note                     |
| Skin corrosion/irritation     | -             | -       | -          | -      | No information available |
| Serious eye damage/irritation | -             | -       | -          | -      | No information available |

|                            |                          |
|----------------------------|--------------------------|
| Sensitization              |                          |
| Skin sensitization:        | No information available |
| Respiratory sensitization: | No information available |

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms related to physical, chemical, and toxicological properties |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Oral exposure:                                                       | Nausea, vomiting (danger of aspiration), diarrhoea. Aspiration may cause headache, vertigo, nausea, dazed feeling-unconsciousness/coma, possible hypothermia, reactions to the heart/circulatory system such as vasodilation (flush), hypotension, arrhythmia (possible ventricular fibrillation through cardiac sensitization), danger of central respiratory paralysis or of cardiac arrest; functional disturbance to the liver and kidneys and persistent disturbance to the CNS as sequelae. |
| Dermal exposure:                                                     | Causes skin irritation, redness, swelling. Prolonged or repeated contact causes defatting and dry skin.                                                                                                                                                                                                                                                                                                                                                                                           |
| Inhalation exposure:                                                 | Vapor inhalation may cause nose and throat irritation followed by sore throat, cough, difficult breathing and suffocating. High concentration vapor inhalation may cause headache, malaise and fatigue, difficult breathing, chest tightness, coordination and CNS disorders.                                                                                                                                                                                                                     |

|               |                                             |                      |             |          |   |
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|               |                                                                                                                             |
|---------------|-----------------------------------------------------------------------------------------------------------------------------|
| Eye exposure: | Vapors irritate eyes. Splashing may cause irritation and redness, lacrimation, pain, swelling, blurred vision, photophobia. |
|---------------|-----------------------------------------------------------------------------------------------------------------------------|

|                                                        |  |  |  |  |  |  |
|--------------------------------------------------------|--|--|--|--|--|--|
| Repeated dose toxicity (subacute, subchronic, chronic) |  |  |  |  |  |  |
|--------------------------------------------------------|--|--|--|--|--|--|

|                       | Dose                     | Exposure time            | Species                  | Method                   | Evaluation               | Note |
|-----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| Subacute oral         | No information available | No information available | No information available | No information available | No information available | -    |
| Subacute dermal       | No information available | No information available | No information available | No information available | No information available | -    |
| Subacute inhalation   | No information available | No information available | No information available | No information available | No information available | -    |
| Subchronic oral       | No information available | No information available | No information available | No information available | No information available | -    |
| Subchronic dermal     | No information available | No information available | No information available | No information available | No information available | -    |
| Subchronic inhalation | No information available | No information available | No information available | No information available | No information available | -    |
| Chronic oral          | No information available | No information available | No information available | No information available | No information available | -    |
| Chronic dermal        | No information available | No information available | No information available | No information available | No information available | -    |
| Chronic inhalation    | No information available | No information available | No information available | No information available | No information available | -    |

|                                                               |  |  |  |
|---------------------------------------------------------------|--|--|--|
| Specific target organ toxicity - repeated exposure (STOT-RE): |  |  |  |
|---------------------------------------------------------------|--|--|--|

|                     | Specific effects         | Target organ             | Note |
|---------------------|--------------------------|--------------------------|------|
| Subacute oral       | No information available | No information available | -    |
| Subacute dermal     | No information available | No information available | -    |
| Subacute inhalation | No information available | No information available | -    |
| Subchronic oral     | No information available | No information available | -    |



|               |                                             |                      |             |          |   |
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| Chronic (long-term) toxicity | Doza             | Exposure 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 plants:        | IC <sub>50</sub> | 72 hours      | No information available | No information available | No information available | -    |
| Other organisms:             | -                | -             | -                        | -                        | -                        | -    |

**12.2. Persistence and degradability**

|                     |                          |                          |                          |      |
|---------------------|--------------------------|--------------------------|--------------------------|------|
| Abiotic degradation |                          |                          |                          |      |
|                     | Degradation half-lives   | Method                   | Evaluation               | Note |
| Marine 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 available | No information available | -    |
|                          |                          |                          |                          |      |

**12.3. Bioaccumulative potential**

**Octanol-water partition coefficient (log K<sub>ow</sub>)**

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

**Bioconcentration Factor (BCF)**

|               |                                             |                      |             |          |   |
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| Value                    | Species                  | Method                   | Evaluation               | Note |
|--------------------------|--------------------------|--------------------------|--------------------------|------|
| No information available | No information available | No information available | No information available | -    |
|                          |                          |                          |                          |      |

Chronic ecotoxicity

| Value                                   | Dose             | Exposure time            | Species                  | Method                   | Evaluation               | Note |
|-----------------------------------------|------------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| Chronic toxicity on fish                | LC <sub>50</sub> | No information available | No information available | No information available | No information available | -    |
| Chronic toxicity on crustacea (Daphnia) | EC <sub>50</sub> | No information available | No information available | No information available | No information available | -    |

**12.4. Mobility in soil**

Known or predicted distribution in environmental compartments:

No information available

Surface tension:

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

Adsorption / desorption

| Transport  | A/D coefficient<br>Henry's constant | log Kow                  | Evaporation rate         | Method                   | Note |
|------------|-------------------------------------|--------------------------|--------------------------|--------------------------|------|
| Soil-Water | No information available            | No information available | No information available | No information available | -    |
| Water-Air  | No information available            | No information available | No information available | No information available | -    |
| Soil-Air   | No information available            | No information available | No information available | No information available | -    |

**12.5. Results of PBT and vPvB assessment**

|               |                                             |                      |             |          |   |
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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6. Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7. Other adverse effects**

No information available

**SECTION 13. Disposal considerations**

**13.1. Waste processing 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 Low:**

Disposal must be made according to official regulations.

**13.1.3. Waste tretment – 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:**

-

**SECTION 14. Transport information**

Transporting/shipment by road (ADR)

|               |                                             |                      |             |          |   |
|---------------|---------------------------------------------|----------------------|-------------|----------|---|
| Trade name:   | <b>GLUTARALDEHYDE, 4% BUFFERED SOLUTION</b> |                      |             |          |   |
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|                                                                                         |                                                    |
|-----------------------------------------------------------------------------------------|----------------------------------------------------|
| UN number:                                                                              | Not subject to transport regulations               |
| UN proper shipping name:                                                                | -                                                  |
| Transport hazard class(es):                                                             | -                                                  |
| Packing group:                                                                          | -                                                  |
| Environmental hazards:                                                                  | -                                                  |
| Special precautions for user:                                                           | -                                                  |
| Transporting/shipment by rail (RID)                                                     |                                                    |
| UN number:                                                                              | Not subject to transport regulations               |
| UN proper shipping name:                                                                | -                                                  |
| Transport hazard class(es):                                                             | -                                                  |
| Packing group:                                                                          | -                                                  |
| Environmental hazards:                                                                  | -                                                  |
| Special precautions for user:                                                           | -                                                  |
| Transporting/shipment by inland waterways (ADN)                                         |                                                    |
| UN number:                                                                              | Not subject to transport regulations               |
| UN proper shipping name:                                                                | -                                                  |
| Transport hazard class(es):                                                             | -                                                  |
| Packing group:                                                                          | -                                                  |
| Environmental hazards:                                                                  | -                                                  |
| Special precautions for user:                                                           | -                                                  |
| Transporting/shipment by sea (IMDG)                                                     |                                                    |
| UN number:                                                                              | Not subject to transport regulations               |
| UN proper shipping name:                                                                | -                                                  |
| Transport hazard class(es):                                                             | -                                                  |
| Packing group:                                                                          | -                                                  |
| Environmental hazards:                                                                  | -                                                  |
| Special precautions for user:                                                           | -                                                  |
| Transport in bulk condition in accordance with Annex II. of MARPOL 73/78 and IBC Codex: | -                                                  |
| Transporting/shipment by air (ICAO-TI/IATA-DGR)                                         |                                                    |
| UN number:                                                                              | 3334                                               |
| UN proper shipping name:                                                                | Aviation regulated liquid, n.o.s. (Glutaraldehyde) |
| Transport hazard class(es):                                                             | 9                                                  |
| Packing group:                                                                          | III                                                |
| Environmental hazards:                                                                  | -                                                  |

|               |                                             |                      |             |          |   |
|---------------|---------------------------------------------|----------------------|-------------|----------|---|
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|                               |   |
|-------------------------------|---|
| Special precautions for user: | - |
| Further information:          | - |

**SECTION 15. Regulatory information**

|              |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>15.1.</b> | <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|              | EU regulations                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|              | Authorisation and/or restrictions on use                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|              | Authorisations:                                                                                              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|              | Restrictions:                                                                                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|              | Other EU regulations:                                                                                        | <p>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;</p> <p>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;</p> <p>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;</p> <p>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;</p> <p>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</p> |
|              | Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|              | National legislation:                                                                                        | <p>Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>15.2.</b> | <b>Chemical safety assessment</b>                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|              | None                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

**SECTION 16. Other information**

|              |                               |   |
|--------------|-------------------------------|---|
| <b>16.1.</b> | <b>Indication of changes:</b> | - |
|--------------|-------------------------------|---|



|               |                                             |                      |             |          |   |
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|                |                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16.2.          | Abbreviations and acronyms:                                                                                             | <p>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</p> <p>IMDG: International Maritime Code for Dangerous Goods</p> <p>IATA: International Air Transport Association</p> <p>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</p> <p>EINECS: European Inventory of Existing Commercial Chemical Substances</p> <p>CAS: Chemical Abstracts Service (division of the American Chemical Society)</p> <p>DNEL: Derived No-Effect Level (UK REACH)</p> <p>LC50: Lethal concentration, 50 percent</p> <p>LD50: Lethal dose, 50 percent</p> <p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>vPvB: very Persistent and very Bioaccumulative</p> |
| 16.3.          | Key literature references and source of data:                                                                           | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 16.4.          | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Classification |                                                                                                                         | Classification procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| -              |                                                                                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 16.5.          | Relevant H statements (number and full text)                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                | H:                                                                                                                      | <p>H301 Toxic if swallowed.</p> <p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H331 Toxic if inhaled.</p> <p>H332 Harmful if inhaled</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled</p> <p>H400 Very toxic to aquatic life.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 16.6.          | Training advice:                                                                                                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 16.7.          | Further information:                                                                                                    | <p>** "X" in the product code marks different volumes (different packaging of the product)</p> <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                                         |
|-------------------------------------------------------------------------|
| <b>ANNEX: Exposure scenario resulting to Chemical safety assessment</b> |
| -                                                                       |