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| Trading name: | <b>NIGROSINE, ISOTONIC SOLUTION</b> |                |              |          |   |
| Product code: | NIO-OT-X**                          | Revision date: | 03 July 2019 | Version: | 3 |

| <b>SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b> |                                                                               |                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1.                                                                                    | Product identifier                                                            |                                                                                                                                                                                                                |
|                                                                                         | Trading name:                                                                 | NIGROSINE, ISOTONIC SOLUTION                                                                                                                                                                                   |
|                                                                                         | Chemical name:                                                                | -                                                                                                                                                                                                              |
|                                                                                         | Catalogue number:                                                             | NIO-OT-X**                                                                                                                                                                                                     |
| 1.2.                                                                                    | Relevant identified uses of the substance or mixture and uses advised against |                                                                                                                                                                                                                |
|                                                                                         | Uses:                                                                         | Aqueous solution of nigrosine used with Eosin an nigrosine vital 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, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes. |
| 1.3.                                                                                    | Details of the supplier of the safety data sheet                              |                                                                                                                                                                                                                |
|                                                                                         | Supplier:                                                                     | BioGnost Ltd.                                                                                                                                                                                                  |
|                                                                                         | Address:                                                                      | Medjugorska 59, Zagreb                                                                                                                                                                                         |
|                                                                                         | Telephone number:                                                             | +385 1 2409997                                                                                                                                                                                                 |
|                                                                                         | Fax no.:                                                                      | +385 1 2404039                                                                                                                                                                                                 |
|                                                                                         | e-mail of competent person:                                                   | <a href="mailto:msds@biognost.hr">msds@biognost.hr</a>                                                                                                                                                         |
|                                                                                         | National contact:                                                             | -                                                                                                                                                                                                              |
| 1.4.                                                                                    | Emergency telephone number                                                    |                                                                                                                                                                                                                |
|                                                                                         | National Protection and Rescue Directorate:                                   | 112                                                                                                                                                                                                            |
|                                                                                         | Medical information:                                                          | +385 1 2348 342                                                                                                                                                                                                |
|                                                                                         | Other information:                                                            | -                                                                                                                                                                                                              |

| SECTION 2 HAZARDS INFORMATION                                      |                                                                 |                              |
|--------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------|
| 2.1.                                                               | Classification of the substance or mixture                      |                              |
| 2.1.1.                                                             | Classification according to (EC) Regulation No. 1272/2008 (CLP) |                              |
|                                                                    | Hazard class and category code:                                 | Hazard statements*:          |
|                                                                    | Skin. Sens. 1                                                   | H317                         |
| 2.1.2.                                                             | Additional information                                          |                              |
|                                                                    | -                                                               |                              |
| *For full text of Hazard- and EU Hazard-statements: see Section 16 |                                                                 |                              |
| 2.2.                                                               | Label 1272/2008 (CLP)                                           |                              |
|                                                                    | Product identification:                                         | NIGROSINE, ISOTONIC SOLUTION |
|                                                                    | Identification number:                                          | -                            |
|                                                                    | Authorization no.:                                              | -                            |

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| Hazard pictograms:        | <br>GHS07                                                                                                                         |  |  |  |  |
| Signal word:              | Warning                                                                                                                                                                                                            |  |  |  |  |
| Hazard statements:        | H317 May cause an allergic skin reaction.                                                                                                                                                                          |  |  |  |  |
| Precautionary statements: | P280 Wear protective gloves/protective clothing/eye/protection/face protection.<br>P302+P352 IF ON SKIN: Wash with plenty of water and soap.<br>P308 + P313 IF exposed or concerned: Get medical advice/attention. |  |  |  |  |
| Further information:      | -                                                                                                                                                                                                                  |  |  |  |  |
| 2.3.                      | Other hazards                                                                                                                                                                                                      |  |  |  |  |
|                           | -                                                                                                                                                                                                                  |  |  |  |  |

| SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS |                          |                                   |                     |                                                                      |
|--------------------------------------------------|--------------------------|-----------------------------------|---------------------|----------------------------------------------------------------------|
| CAS/<br>EC/<br>Index no.                         | REACH<br>Registration No | Weight %<br>content (or<br>range) | Identification name | Classification according to<br>Regulation (EC) No<br>1272/2008 (CLP) |
| 8005-03-6/<br>616-852-7/<br>-                    | -                        | ≤ 10                              | Acid Black 2        | Skin. Sens. 1; H317                                                  |

| SECTION 4 FIRST AID MEASURES |                                                                                                                                                                                                                         |  |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 4.1.                         | Description of first aid measures                                                                                                                                                                                       |  |
| General notes:               | If the suggested first aid measures do not prove sufficient, seek medical attention.                                                                                                                                    |  |
| Following inhalation:        | Remove person to fresh air. If breathing stops, immediately apply artificial respiration. If breathing difficulties occur, use emergency breathing apparatus. If the symptoms persist, immediately consult a physician. |  |
| Following skin contact:      | Take off immediately all contaminated clothing. Immediately wash with plenty of water and soap for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.                                   |  |
| Following eye contact:       | Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.                                                                     |  |

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|      | Following ingestion:                                                       | Rinse the oral cavity; drink at most 1-2 glasses of water. Do not induce vomiting. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital. |
|      | Self-protection of the first aider:                                        | -                                                                                                                                                                                                                                           |
| 4.2. | Most important symptoms and effects, both acute and delayed                |                                                                                                                                                                                                                                             |
|      | Following inhalation:                                                      | Irritation of the mucous membrane of the nose/throat may occur (burning sensation, urge to sneeze, runny nose). High concentration may cause difficult breathing, coughing fits, chest tightness, headache, vertigo and drowsiness.         |
|      | Following skin contact:                                                    | Irritation, redness with stinging and pain, skin cracking, rash, swelling, burns, blisters and delayed onset of inflammatory processes may occur.                                                                                           |
|      | Following eye contact:                                                     | Depending on concentration and exposure time, mucosa stinging, lacrimation, redness and pain may occur, as well as bleeding, delayed onset of inflammatory processes and permanent eyesight damage.                                         |
|      | Following ingestion:                                                       | Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting (possibly of bloody content).                                                                            |
| 4.3. | Indication of any immediate medical attention and special treatment needed |                                                                                                                                                                                                                                             |
|      | -                                                                          |                                                                                                                                                                                                                                             |

|                                        |                                                                                                                                                                                      |                                                                                                                                                                                                  |
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| <b>SECTION 5 Firefighting measures</b> |                                                                                                                                                                                      |                                                                                                                                                                                                  |
| 5.1.                                   | Extinguishing media                                                                                                                                                                  |                                                                                                                                                                                                  |
|                                        | Suitable extinguishing media:                                                                                                                                                        | Small fire - water spray, dry powder, CO <sub>2</sub><br>Large fire - water spray or alcohol-resistant foam                                                                                      |
|                                        | Unsuitable extinguishing media:                                                                                                                                                      | No information available                                                                                                                                                                         |
| 5.2.                                   | Special hazards arising from the substance or mixture                                                                                                                                |                                                                                                                                                                                                  |
|                                        | Hazardous combustion products:                                                                                                                                                       | Possible liberation of toxic carbon monoxide and formaldehyde gases due to thermal decomposition (increased temperature). Explosive mixtures of formaldehyde vapors and air also present danger. |
| 5.3.                                   | Advice for firefighters                                                                                                                                                              |                                                                                                                                                                                                  |
|                                        | Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray, in order to prevent explosion. |                                                                                                                                                                                                  |
| 5.4.                                   | Additional information                                                                                                                                                               |                                                                                                                                                                                                  |
|                                        | Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.                                                                                    |                                                                                                                                                                                                  |

|                                              |                                                                     |  |
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| <b>SECTION 6 ACCIDENTAL RELEASE MEASURES</b> |                                                                     |  |
| 6.1.                                         | Personal precautions, protective equipment and emergency procedures |  |

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| 6.1.1. | For non-emergency personnel                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|        | Protective equipment:                                                                                                                                                           | Use personal protective equipment (see Section 8).                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | Accident prevention methods:                                                                                                                                                    | Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors 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.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6.1.2. | For emergency responders:                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|        | Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6.2.   | Environmental precautions:                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|        | Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6.3.   | Methods and material for containment and cleaning up                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6.3.1. | For creating barriers, covering and sealing:                                                                                                                                    | Sand or clay barriers.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 6.3.2. | Cleaning up:                                                                                                                                                                    | Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). 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. |
| 6.3.3. | Other information:                                                                                                                                                              | Do not use tools that may cause sparks.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 6.4.   | Reference to other sections                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|        | See Section 7 for information about secure handling.<br>See Section 8 for information about personal protective equipment.<br>See Section 13 for information about containment. |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| SECTION 7 HANDLING AN STORAGE |                                                                                                  |                                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1.                          | Precautions for safe handling                                                                    |                                                                                                                                          |
| 7.1.1.                        | Protection measures                                                                              |                                                                                                                                          |
|                               | 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:                                                                                  | -                                                                                                                                        |
| 7.1.2.                        | Advice on general occupational hygiene:                                                          |                                                                                                                                          |
|                               | Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating. |                                                                                                                                          |

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| 7.2. | Conditions for safe storage, including any incompatibilities |                                                                                                                                                                              |
|      | Technical measures and storage conditions:                   | Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.                                               |
|      | 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). |
| 7.3. | Specific end use(s)                                          |                                                                                                                                                                              |
|      | Recommendations:                                             | -                                                                                                                                                                            |
|      | Industrial sector specific solutions:                        | -                                                                                                                                                                            |

| SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION                      |                    |                                                      |                      |                         |
|----------------------------------------------------------------------|--------------------|------------------------------------------------------|----------------------|-------------------------|
| 8.1.                                                                 | Control parameters |                                                      |                      |                         |
| Substance                                                            | CAS No             | Occupational exposure limit values/short term values |                      | Biological limit values |
|                                                                      |                    | ppm                                                  | mg/m <sup>3</sup>    |                         |
| -                                                                    | -                  | -                                                    | -                    | -                       |
|                                                                      |                    |                                                      |                      |                         |
| Substance name:                                                      | -                  |                                                      |                      |                         |
| EC No:                                                               | -                  | CAS No:                                              | -                    |                         |
| DNEL                                                                 |                    |                                                      |                      |                         |
| 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                                                             |                    |                                                      |                      |                         |

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

| <b>PNEC</b>                        |                          |
|------------------------------------|--------------------------|
| Environmental protection target    | <b>PNEC</b>              |
| 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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| 8.2.     | Exposure controls                                                              |                                                                                                                                                                                                        |
| 8.2.1.   | Appropriate engineering controls                                               |                                                                                                                                                                                                        |
|          | Substance/mixture related measures to prevent exposure during identified uses: | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.                                                                              |
|          | Structural measures to prevent exposure:                                       | 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.                                                                                               |
| 8.2.2.   | Personal protection equipment                                                  |                                                                                                                                                                                                        |
| 8.2.2.1. | Eye and face protection:                                                       | Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air. |
| 8.2.2.2. | Skin protection                                                                |                                                                                                                                                                                                        |

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|          | Hand protection:                                        | <p>Protective gloves must be according to the EU Directive 89/686/EEC and standard EN 374.</p> <p>Full contact:</p> <p>Glove material: nitrile rubber</p> <p>Glove thickness: 0.40 mm</p> <p>Time until perforation: &gt; 480 min</p> <p>Splash contact:</p> <p>Gloves material: polychloroprene</p> <p>Glove thickness: 0.65 mm</p> <p>Time until perforation: &gt;240 min</p> |
|          | Other skin protection:                                  | Wear protective suit with long sleeves (EN 340) that protects from chemicals and shoes that cover the entire foot.                                                                                                                                                                                                                                                              |
| 8.2.2.3. | Respiratory protection:                                 | Full face mask (EN 136) or half mask (EN 140) equipped with a recommended "ABEK" filter (EN 14387) used when concentration levels exceed GVI.                                                                                                                                                                                                                                   |
| 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                                                                                                                                                                                                                                                                                                                                                                   |

| SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES |                                                       |                          |                          |
|--------------------------------------------|-------------------------------------------------------|--------------------------|--------------------------|
| 9.1.                                       | Information on basic physical and chemical properties |                          |                          |
|                                            |                                                       | Value                    | Method                   |
|                                            | Physical state:                                       | liquid                   | No information available |
|                                            | Color:                                                | black                    | No information available |
|                                            | Odor:                                                 | No information available | No information available |
|                                            | Odor threshold:                                       | No information available | No information available |
|                                            | pH:                                                   | No information available | No information available |
|                                            | Melting point / freezing point:                       | No information available | No information available |
|                                            | Initial boiling point and boiling range:              | No information available | No information available |
|                                            | Flash point:                                          | No information available | No information available |
|                                            | Evaporation rate:                                     | No information available | No information available |
|                                            | Flammability (solid, gas):                            | No information available | No information available |

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|      | Upper/lower flammability or explosive limits:     | No information available | No information available |
|      | Vapor pressure:                                   | No information available | No information available |
|      | Vapor density:                                    | No information available | No information available |
|      | Relative density:                                 | No information available | No information available |
|      | Bulk density:                                     | No information available | No information available |
|      | Solubility(ies):                                  | No information available | No information available |
|      | Partition coefficient: n-octanol/water (log Kow): | No information available | No information available |
|      | Auto-ignition temperature:                        | No information available | No information available |
|      | Decomposition temperature:                        | No information available | No information available |
|      | Viscosity:                                        | No information available | No information available |
|      | Explosive properties:                             | No information available | No information available |
|      | Oxidizing properties:                             | No information available | No information available |
| 9.2. | Other information                                 |                          |                          |
|      | -                                                 |                          |                          |

| SECTION 10 STABILITY AND REACTIVITY |                                     |                                                                                                             |
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| 10.1.                               | Reactivity:                         | See subsections 10.3 through 10.5.                                                                          |
| 10.2.                               | Chemical stability:                 | The product is chemically stable under standard ambient conditions of storing and using (room temperature). |
| 10.3.                               | Possibility of hazardous reactions: | No information available                                                                                    |
| 10.4.                               | Conditions to avoid:                | Sources of heat, sparks, ignition, and low temperature.                                                     |
| 10.5.                               | Incompatible materials:             | Highly oxidizing agents, acids, bases and different metals, steel manufactured by melting, copper.          |
| 10.6.                               | Hazardous decomposition products:   | Carbon monoxides.                                                                                           |

| SECTION 11 TOXICOLOGICAL INFORMATION |                                      |         |                                                                     |                          |                          |
|--------------------------------------|--------------------------------------|---------|---------------------------------------------------------------------|--------------------------|--------------------------|
| 11.1.                                | Information on toxicological effects |         |                                                                     |                          |                          |
|                                      | Acute toxicity:                      |         |                                                                     |                          |                          |
| Route of exposure:                   | Method                               | Species | Dose<br>LD <sub>50</sub> /LC <sub>50</sub> or<br>ATE <sub>mix</sub> | Exposure time            | Results                  |
| Oral exposure:                       | No information available             | -       | -                                                                   | No information available | No information available |
| Dermal exposure:                     | No information available             | -       | -                                                                   | No information available | No information available |

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| Subacute inhalation   | No information available | 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 | No information available |
| Subchronic dermal     | No information available | 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 | No information available |
| Chronic oral          | No information available | 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 | No information available |
| Chronic inhalation    | No information available | No information available | No information available | No information available | No information available | No information available |

|                                                               |                          |                          |                          |
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| Specific target organ toxicity – repeated exposure (STOT RE): |                          |                          |                          |
|                                                               | Specific effects         | Target organ             | Note                     |
| Subacute oral                                                 | No information available | No information available | No information available |
| Subacute dermal                                               | No information available | No information available | No information available |
| Subacute inhalation                                           | No information available | No information available | No information available |
| Subchronic oral                                               | No information available | No information available | No information available |
| Subchronic dermal                                             | No information available | No information available | No information available |
| Subchronic inhalation                                         | No information available | No information available | No information available |
| Chronic oral                                                  | No information available | No information available | No information available |
| Chronic dermal                                                | No information available | No information available | No information available |
| Chronic inhalation                                            | No information available | No information available | No information available |

|                                                                    |                           |
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| CMR effects (carcinogenicity; mutagenicity; reproductive toxicity) |                           |
| Carcinogenicity:                                                   | No information available. |
| Mutagenicity <i>in vitro</i> :                                     | No information available. |
| Genotoxicity:                                                      | No information available. |
| Mutagenicity <i>in vivo</i> :                                      | No information available. |
| Germ cell mutagenicity:                                            | No information available. |

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|       |                                              |                           |
|-------|----------------------------------------------|---------------------------|
|       | Reproductive toxicity:                       | No information available. |
|       | Summary of evaluation of the CMR properties: | No information available. |
| 11.2. | Practical experiences:                       |                           |
|       | Remarks relevant for classification:         | No information available  |
|       | Other remarks:                               | No information available  |
| 11.3. | General notes:                               |                           |
|       | -                                            |                           |

| SECTION 12 ECOLOGICAL INFORMATION: |                               |                          |         |                          |                          |      |
|------------------------------------|-------------------------------|--------------------------|---------|--------------------------|--------------------------|------|
| 12.1.                              | Toxicity                      |                          |         |                          |                          |      |
| Acute (short-term) toxicity        | Dose                          | Exposure time            | Species | Method                   | Evaluation               | Note |
| Fish                               | LC <sub>50</sub>              | 96 hours                 | -       | -                        | No information available | -    |
| Crustacea:                         | EC <sub>50</sub>              | 48 hours                 | -       | -                        | No information available | -    |
| Algae/aquatic plants               | IC <sub>50</sub>              | 72 hours                 | -       | -                        | No information available | -    |
| Other organisms                    | -                             | -                        | -       | -                        | No information available | -    |
| Chronic (long-term) toxicity       | Dose                          | Exposure time            | Species | Method                   | Evaluation               | Note |
| Fish                               | LC <sub>50</sub>              | 96 hours                 | -       | -                        | No information available | -    |
| Crustacea:                         | EC <sub>50</sub>              | 48 hours                 | -       | -                        | No information available | -    |
| Algae/aquatic plants               | IC <sub>50</sub>              | 72 hours                 | -       | -                        | No information available | -    |
| Other organisms                    | -                             | -                        | -       | -                        | No information available | -    |
| 12.2.                              | Persistence and degradability |                          |         |                          |                          |      |
|                                    | Abiotic degradation           |                          |         |                          |                          |      |
|                                    | Degradation half-lives        | Method                   |         | Evaluation               |                          | Note |
| Marine water                       | No information available      | No information available |         | No information available |                          | -    |

|               |                                     |                |              |          |   |
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|             |                          |                          |                          |   |
|-------------|--------------------------|--------------------------|--------------------------|---|
| 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 |
|---------------------------------|

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

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

|                               |
|-------------------------------|
| Bioconcentration factor (BCF) |
|-------------------------------|

| 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 ( <i>Daphnia</i> ) | 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: |
|----------------------------------------------------------------|

|               |                                     |                |              |          |   |
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|                  |                          |                          |                          |                          |      |
|------------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| 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 |
|       | No information available           |
| 12.6. | Other adverse effects              |
|       | No information available           |

## SECTION 13 DISPOSAL CONSIDERATIONS

|         |                                                                                                               |
|---------|---------------------------------------------------------------------------------------------------------------|
| 13.1.   | Waste treatment methods                                                                                       |
| 13.1.1. | Product/Packaging disposal:                                                                                   |
|         | Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.    |
| 13.1.2. | Waste codes/waste designations according to Law:                                                              |
|         | 15 01 10*: packaging that contains residual hazardous substances or is contaminated with hazardous substances |
| 13.1.3. | Waste treatment – relevant information:                                                                       |
|         | No information available                                                                                      |
| 13.1.4. | Sewage disposal – relevant information:                                                                       |

|               |                                     |                |              |          |   |
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|         |                                                                                                                                                                                                                                                                                                                        |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Waste must not be disposed of into the sewage system.                                                                                                                                                                                                                                                                  |
| 13.1.5. | Other disposal recommendations:<br><br>Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. |
| 13.1.6. | Relevant Community provisions:<br><br>-                                                                                                                                                                                                                                                                                |

#### SECTION 14 TRANSPORT INFORMATION

|                               |                                       |
|-------------------------------|---------------------------------------|
|                               | Transporting/shipment by road (ADR)   |
| UN number:                    | Not subject to transport regulations. |
| UN proper shipping name:      | -                                     |
| Transport hazard class(es):   | -                                     |
| Packing group:                | -                                     |
| Environmentally hazardous:    | -                                     |
| Special precautions for user: | -                                     |
|                               | Transporting/shipment by rail (RID)   |
| UN number:                    | Not subject to transport regulations. |
| UN proper shipping name:      | -                                     |
| Transport hazard class(es):   | -                                     |
| Packing group:                | -                                     |
| Environmentally hazardous:    | -                                     |
| Special precautions for user: | -                                     |
|                               | Inland waterway transport (ADN)       |
| UN number:                    | Not subject to transport regulations. |
| UN proper shipping name:      | -                                     |
| Transport hazard class(es):   | -                                     |
| Packing group:                | -                                     |
| Environmentally hazardous:    | -                                     |
| Special precautions for user: | -                                     |
|                               | Transporting/shipment by sea (IMDG)   |
| UN number:                    | Not subject to transport regulations. |
| UN proper shipping name:      | -                                     |
| Transport hazard class(es):   | -                                     |
| Packing group:                | -                                     |
| Environmentally hazardous:    | -                                     |

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

| SECTION 15 REGULATORY INFORMATION |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15.1.                             | Safety, health and environmental regulations/legislation specific for the substance or mixture               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                   | EU regulations                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                   | Authorization and/or restrictions of use                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                   | Authorizations:                                                                                              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                   | Restrictions:                                                                                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                   | Other EU regulations:                                                                                        | <p>EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;</p> <p>The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);</p> <p>EC Regulation No. 2037/2000 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;</p> <p>EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;</p> <p>EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;</p> <p>Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives</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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|               |                                     |                |              |          |   |
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|-------|----------------------------|
| 15.2. | Chemical safety assessment |
|       | -                          |

| SECTION 16 Other information |                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16.1.                        | Indication of changes:                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                        |
| 16.2.                        | Abbreviations and acronyms:                                                                                             | PBT                      Stable, bioaccumulative and toxic<br>vPvB                    Strongly stable and strongly bioaccumulative.<br>LD50                    Lethal dose, 50%<br>LC50                    Lethal concentration, 50%<br>STOT - SE            Specific target organ toxicity - single exposure<br>STOT - RE            Specific target organ toxicity - repeated exposure |
| 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 according to CLP                                                                                         | Classification procedure                                                                                                                                                                                                                                                                                                                                                                 |
|                              | -                                                                                                                       | -                                                                                                                                                                                                                                                                                                                                                                                        |
| 16.5.                        | Relevant H statements (number and full text)                                                                            |                                                                                                                                                                                                                                                                                                                                                                                          |
|                              | H:    H317                                                                                                              | May cause an allergic skin reaction.                                                                                                                                                                                                                                                                                                                                                     |
| 16.6.                        | Training advice:                                                                                                        | -                                                                                                                                                                                                                                                                                                                                                                                        |
| 16.7.                        | Further information:                                                                                                    | "X" in the product code marks different volumes (different packagings of the product)<br>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.                                                                                                                     |

| ANNEX:<br>EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT |
|---------------------------------------------------------------------|
| -                                                                   |