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|---------------|---------------------------------------|----------------|-------------|----------|---|
| Trading name: | BRILLIANT GREEN CERTIFIED, C.I. 42040 |                |             |          |   |
| Product code: | BG-P-X**                              | Revision date: | 29.07.2019. | Version: | 2 |

| <b>SECTION 1. Identification of the substance/mixture and of the company/undertaking</b> |                                                                               |                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1.                                                                                     | Product identifier                                                            |                                                                                                                                                                                                                |
|                                                                                          | Substance name:                                                               | BRILLIANT GREEN CERTIFIED, C.I. 42040                                                                                                                                                                          |
|                                                                                          | EC No:                                                                        | 211-190-1                                                                                                                                                                                                      |
|                                                                                          | Synonyms:                                                                     | Malachite Green G, Basic Green 1, Emerald Green                                                                                                                                                                |
|                                                                                          | Catalogue number:                                                             | BG-P-X**                                                                                                                                                                                                       |
|                                                                                          | REACH registration number:                                                    | -                                                                                                                                                                                                              |
|                                                                                          | CAS No:                                                                       | 633-03-4                                                                                                                                                                                                       |
|                                                                                          | Index no.:                                                                    | -                                                                                                                                                                                                              |
| 1.2.                                                                                     | Relevant identified uses of the substance or mixture and uses advised against |                                                                                                                                                                                                                |
|                                                                                          | Uses:                                                                         | For microscopy.                                                                                                                                                                                                |
|                                                                                          | 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:                                                            | -                                                                                                                                                                                                              |

| <b>SECTION 2. Hazards information</b>                              |                                                                |                     |
|--------------------------------------------------------------------|----------------------------------------------------------------|---------------------|
| 2.1.                                                               | Classification of the substance or mixture                     |                     |
| 2.1.1.                                                             | Classification according to Regulation (EC) No 1272/2008 (CLP) |                     |
|                                                                    | Hazard class and category code:                                | Hazard statements*: |
|                                                                    | Acute Tox. 4                                                   | H302                |
|                                                                    | Eye Irrit. 2                                                   | H319                |
| 2.1.2.                                                             | Additional information                                         |                     |
|                                                                    | -                                                              |                     |
| *For full text of Hazard- and EU Hazard-statements: see Section 16 |                                                                |                     |
| 2.2.                                                               | Label elements                                                 |                     |

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| Product identification:               | BRILLIANT GREEN CERTIFIED, C.I. 42040                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| Identification number:                | -                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| Authorization no.:                    | -                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| Hazard pictograms:                    | <br>GHS07                                                                                                                                                                                                                                                                                                     |  |  |  |
| Signal word:                          | Warning                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |
| Hazard statements:                    | H302 Harmful if swallowed.<br>H319 Causes serious eye irritation.                                                                                                                                                                                                                                                                                                                              |  |  |  |
| Precautionary statements:             | P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P301+P312 If swallowed: Call Poison Center or doctor/physician if you feel unwell.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P308 + P313 IF exposed or concerned: Get medical advice/attention. |  |  |  |
| Supplemental hazard information (EU): | -                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| 2.3.                                  | Other hazards                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                       | -                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |

| SECTION 3. Composition/information on ingredients |           |           |                                                                                                  |                             |
|---------------------------------------------------|-----------|-----------|--------------------------------------------------------------------------------------------------|-----------------------------|
| CAS No                                            | EC No:    | Index no. | Identification name                                                                              | Weight % content (or range) |
| 633-03-4                                          | 211-190-1 | -         | [4-[4-(diethylamino)benzhydrylene]cyclohexa-2,5-dien-1-ylidene]diethylammonium hydrogen sulphate | ~100 %                      |

| 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:         | Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician. |  |
| Following skin contact:       | Remove contaminated clothing. Immediately wash with copious                                                                                                                                                                                       |  |

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|      |                                                                            | amounts of water for at least 15 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 using clean fingers. If the symptoms remain, immediately call a physician.                                  |
|      | Following ingestion:                                                       | DO NOT induce vomiting. If the afflicted person is unconscious, do not provide them with anything orally. Seek medical attention in case of irritation or other symptoms. |
|      | Self-protection of the first aider:                                        | -                                                                                                                                                                         |
| 4.2. | Most important symptoms and effects, both acute and delayed                |                                                                                                                                                                           |
|      | Following inhalation:                                                      | Harmful if swallowed.                                                                                                                                                     |
|      | Following skin contact:                                                    | Harmful by inhalation and in contact with skin.                                                                                                                           |
|      | Following eye contact:                                                     | Risk of serious damage to eyes.                                                                                                                                           |
|      | Following ingestion:                                                       | Harmful if swallowed.                                                                                                                                                     |
| 4.3. | Indication of any immediate medical attention and special treatment needed |                                                                                                                                                                           |
|      | -                                                                          |                                                                                                                                                                           |

|                                         |                                                                                                                                                                |                                                                               |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>SECTION 5. Firefighting measures</b> |                                                                                                                                                                |                                                                               |
| 5.1.                                    | Extinguishing media                                                                                                                                            |                                                                               |
|                                         | Suitable extinguishing media:                                                                                                                                  | water, foam, dry powder, CO <sub>2</sub>                                      |
|                                         | Unsuitable extinguishing media:                                                                                                                                | -                                                                             |
| 5.2.                                    | Special hazards arising from the substance or mixture                                                                                                          |                                                                               |
|                                         | Hazardous combustion products:                                                                                                                                 | Certain substances may occur in case of fire: nitrogen oxides, sulfur oxides. |
| 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 or vapor. |                                                                               |
| 5.4.                                    | Additional information                                                                                                                                         |                                                                               |
|                                         | Make sure the water used for extinguishing fire does not contaminate water surface or groundwaters.                                                            |                                                                               |

|                                               |                                                                     |                                                                                       |
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| <b>SECTION 6. Accidental release measures</b> |                                                                     |                                                                                       |
| 6.1.                                          | Personal precautions, protective equipment and emergency procedures |                                                                                       |
| 6.1.1.                                        | For non-emergency personnel                                         |                                                                                       |
|                                               | Protective equipment:                                               | Use personal protective equipment (see Section 8).                                    |
|                                               | Accident prevention methods:                                        | Avoid inhaling dust. Avoid contact with the substance. Secure proper ventilation.     |
|                                               | Emergency procedures:                                               | Leave the hazardous area, pay attention to emergency procedures, consult with expert. |
| 6.1.2.                                        | For emergency responders:                                           |                                                                                       |
|                                               | -                                                                   |                                                                                       |

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| 6.2.   | Environmental precautions:                           |                                                                                                                                                                                                                                                                                                                                      |
|        | The product must not enter sewers.                   |                                                                                                                                                                                                                                                                                                                                      |
| 6.3.   | Methods and material for containment and cleaning up |                                                                                                                                                                                                                                                                                                                                      |
| 6.3.1. | For creating barriers, covering and sealing:         | Cap the drains. Collect, bundle and pump out everything that got spilled. Pay attention to the possible material restrictions (see Sections 7 and 10). Collect in dry form.                                                                                                                                                          |
| 6.3.2. | Cleaning up:                                         | 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:                                   | -                                                                                                                                                                                                                                                                                                                                    |
| 6.4.   | Reference to other sections                          |                                                                                                                                                                                                                                                                                                                                      |
|        | For indications of waste processing see Section 13.  |                                                                                                                                                                                                                                                                                                                                      |

|                                        |                                                                                                  |                                                                                                                                                                                |
|----------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SECTION 7. Handling and storage</b> |                                                                                                  |                                                                                                                                                                                |
| 7.1.                                   | Precautions for safe handling                                                                    |                                                                                                                                                                                |
| 7.1.1.                                 | Protection measures                                                                              |                                                                                                                                                                                |
|                                        | Measures to prevent fire:                                                                        | -                                                                                                                                                                              |
|                                        | 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. |                                                                                                                                                                                |
| 7.2.                                   | Conditions for safe storage, including any incompatibilities                                     |                                                                                                                                                                                |
|                                        | Technical measures and storage conditions:                                                       | Minimize dust formation. Avoid inhaling vapor, dust, mist or gas. Avoid contact with skin, eyes and clothes. Keep in tightly closed container. Avoid swallowing and breathing. |
|                                        | Packaging materials:                                                                             | Manufacturer's original packaging.                                                                                                                                             |
|                                        | Requirements for storage rooms and vessels:                                                      | Keep container tightly closed. Keep in cool, dry and well-ventilated space, away from incompatible substances.                                                                 |
|                                        | 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:                                                       | No information available.                                                                                                                                                      |
| 7.3.                                   | Specific end use(s)                                                                              |                                                                                                                                                                                |
|                                        | Recommendations:                                                                                 | -                                                                                                                                                                              |

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

| <b>SECTION 8. Exposure controls/personal protection</b>              |                    |                                                      |                      |                         |
|----------------------------------------------------------------------|--------------------|------------------------------------------------------|----------------------|-------------------------|
| 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:                                              | -                    |                         |
| <b>DNEL</b>                                                          |                    |                                                      |                      |                         |
| <b>Industrial</b>                                                    |                    |                                                      |                      |                         |
| Route of exposure:                                                   | Acute effect local | Acute effect systemic                                | Chronic effect local | Chronic effect systemic |
| Oral                                                                 | -                  | -                                                    | -                    | -                       |
| Inhalation                                                           | -                  | -                                                    | -                    | -                       |
| Dermal                                                               | -                  | -                                                    | -                    | -                       |
| Critical physical parameters: solubility, flammability, corrosivity: |                    |                                                      |                      |                         |
| <b>Consumer</b>                                                      |                    |                                                      |                      |                         |
| 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 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:                                        | Use with appropriate ventilation.                                                                                                                                                                                                                                                                           |
| 8.2.2.   | Personal protection equipment                                                  |                                                                                                                                                                                                                                                                                                             |
| 8.2.2.1. | Eye and face protection:                                                       | Safety glasses that stick to face (preventing splashing) or visor.                                                                                                                                                                                                                                          |
| 8.2.2.2. | Skin protection                                                                |                                                                                                                                                                                                                                                                                                             |
|          | Hand protection:                                                               | In case of coming into thorough contact, use butyl rubber gloves (0.4 mm thick). In case of contact with drops, use polychlorene gloves (0.1 mm thick).                                                                                                                                                     |
|          | Other skin protection:                                                         | During everyday work use cotton clothing and suitable footwear, such as rubber boots or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material. |
| 8.2.2.3. | Respiratory protection:                                                        | If the concentration level exceeds the GVI values, use full gas mask equipped with brown filter A.                                                                                                                                                                                                          |
| 8.2.2.4. | Thermal hazards:                                                               | -                                                                                                                                                                                                                                                                                                           |
| 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:                                       | powder                   | No information available |
|                                             | Color:                                                | green                    | No information available |
|                                             | Odor:                                                 | No odor                  | No information available |
|                                             | Odor threshold:                                       | No information available | No information available |
|                                             | pH:                                                   | No information available | No information available |

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|      | Melting point / freezing point:                   | 210 °C                   | 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 |
|      | 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 |
|      | Oxidising properties:                             | No information available | No information available |
| 9.2. | Other information                                 |                          |                          |
|      | -                                                 |                          |                          |

| SECTION 10. Stability and reactivity |                                     |                                                                                                             |
|--------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 10.1.                                | Reactivity:                         | No information available                                                                                    |
| 10.2.                                | Chemical stability:                 | The product is chemically stable under standard ambient conditions of storing and using (room temperature). |
| 10.3.                                | Possibility of hazardous reactions: | No information available                                                                                    |
| 10.4.                                | Conditions to avoid:                | Strong heating.                                                                                             |
| 10.5.                                | Incompatible materials:             | Strong oxidizers and reducing agents.                                                                       |
| 10.6.                                | Hazardous decomposition products:   | No information available                                                                                    |

| SECTION 11. Toxicological information |                                      |         |      |               |         |
|---------------------------------------|--------------------------------------|---------|------|---------------|---------|
| 11.1.                                 | Information on toxicological effects |         |      |               |         |
|                                       | Acute toxicity:                      |         |      |               |         |
| Route of                              | Method                               | Species | Dose | Exposure time | Results |

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| exposure:            |                          |                          | LD <sub>50</sub> /LC <sub>50</sub> |                          |   |
| Oral exposure:       | No information available | No information available | No information available           | No information available | - |
| Dermal exposure:     | No information available | No information available | No information available           | No information available | - |
| Inhalation exposure: | No information available | No information available | No information available           | No information available | - |

**Specific target organ toxicity – single exposure (STOT SE):**

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

**Aspiration hazard:** No information available

**Irritation and corrosion**

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

**Sensitization**

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

**Symptoms related to the physical, chemical and toxicological characteristics**

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Oral exposure:       | Harmful if swallowed.                           |
| Dermal exposure:     | Harmful by inhalation and in contact with skin. |
| Inhalation exposure: | Harmful if swallowed.                           |
| Eye exposure:        | Risk of serious damage to eyes.                 |

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| Repeated dose toxicity (subacute, subchronic, chronic)        |                          |                          |                          |                          |                          |      |
|---------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
|                                                               | Dose                     | Exposure time            | Species                  | Method                   | Evaluation               | Note |
| Subacute oral                                                 | No information available | No information available | No information available | No information available | No information available | -    |
| Subacute dermal                                               | No information available | No information available | No information available | No information available | No information available | -    |
| Subacute inhalation                                           | No information available | No information available | No information available | No information available | No information available | -    |
| Subchronic oral                                               | No information available | No information available | No information available | No information available | No information available | -    |
| Subchronic dermal                                             | No information available | No information available | No information available | No information available | No information available | -    |
| Subchronic inhalation                                         | No information available | No information available | No information available | No information available | No information available | -    |
| Chronic oral                                                  | No information available | No information available | No information available | No information available | No information available | -    |
| Chronic dermal                                                | No information available | No information available | No information available | No information available | No information available | -    |
| Chronic inhalation                                            | No information available | No information available | No information available | No information available | No information available | -    |
| Specific target organ toxicity – repeated exposure (STOT RE): |                          |                          |                          |                          |                          |      |
|                                                               | Specific effects         |                          | Target organ             |                          | Note                     |      |
| Subacute oral                                                 | No information available |                          | No information available |                          | -                        |      |
| Subacute dermal                                               | No information available |                          | No information available |                          | -                        |      |
| Subacute inhalation                                           | No information available |                          | No information available |                          | -                        |      |
| Subchronic oral                                               | No information available |                          | No information available |                          | -                        |      |
| Subchronic dermal                                             | No information available |                          | No information available |                          | -                        |      |
| Subchronic inhalation                                         | No information available |                          | No information available |                          | -                        |      |
| Chronic oral                                                  | No information available |                          | No information available |                          | -                        |      |
| Chronic dermal                                                | No information available |                          | No information available |                          | -                        |      |

|               |                                              |                |             |          |   |
|---------------|----------------------------------------------|----------------|-------------|----------|---|
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|                                |                                                                    |                          |   |
|--------------------------------|--------------------------------------------------------------------|--------------------------|---|
| Chronic inhalation             | No information available                                           | No information available | - |
|                                |                                                                    |                          |   |
|                                | 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                                           |                          |   |
| 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 | No information available | No information available | -    |
| Crustacea:                         | EC <sub>50</sub> | 48 hours      | No information available | No information available | No information available | -    |
| Algae/aquatic plants               | IC <sub>50</sub> | 72 hours      | No information available | No information available | No information available | -    |
| Other organisms                    | -                | -             | -                        | -                        | -                        | -    |
| Chronic (long-term) toxicity       | Dose             | Exposure time | Species                  | Method                   | Evaluation               | Note |
| Fish                               | LC <sub>50</sub> | 96 hours      | No information available | No information available | No information available | -    |
| Crustacea:                         | EC <sub>50</sub> | 48 hours      | No                       | No                       | No                       | -    |

|               |                                              |                |             |          |   |
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|                      |                  |          |                          |                          |                          |   |
|----------------------|------------------|----------|--------------------------|--------------------------|--------------------------|---|
|                      |                  |          | information available    | information available    | information available    |   |
| Algae/aquatic plants | IC <sub>50</sub> | 72 hours | No information available | No information available | No information available | - |
| Other organisms      | -                | -        | -                        | -                        | -                        | - |

## 12.2. Persistence and degradability

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

|                          |                          |                          |                          |      |  |
|--------------------------|--------------------------|--------------------------|--------------------------|------|--|
|                          | Biodegradation           |                          |                          |      |  |
| % Degradation            | Time (days)              | Method                   | Evaluation               | Note |  |
| No information available | No information available | No information available | No information available | -    |  |
|                          |                          |                          |                          |      |  |
|                          |                          |                          |                          |      |  |

## 12.3. Bioaccumulative potential

|                          |                                                   |    |    |                          |                          |                          |
|--------------------------|---------------------------------------------------|----|----|--------------------------|--------------------------|--------------------------|
|                          | 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 | No information available |
|                          |                                                   |    |    |                          |                          |                          |
|                          |                                                   |    |    |                          |                          |                          |

|                          |                               |                          |                          |                          |  |
|--------------------------|-------------------------------|--------------------------|--------------------------|--------------------------|--|
|                          | Bioconcentration factor (BCF) |                          |                          |                          |  |
| Value                    | Species                       | Method                   | Evaluation               | Note                     |  |
| No information available | No information available      | No information available | No information available | No information available |  |
|                          |                               |                          |                          |                          |  |
|                          |                               |                          |                          |                          |  |

## Chronic ecotoxicity

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

#### 12.4. Mobility in soil

| Known or predicted distribution in environmental compartments: |                          |                          |                          |      |  |
|----------------------------------------------------------------|--------------------------|--------------------------|--------------------------|------|--|
| No information available                                       |                          |                          |                          |      |  |
| Surface tension:                                               |                          |                          |                          |      |  |
| Value                                                          | °C                       | Concentration            | Method                   | Note |  |
| No information available                                       | No information available | No information available | No information available | -    |  |
|                                                                |                          |                          |                          |      |  |
|                                                                |                          |                          |                          |      |  |

#### Adsorption / desorption

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

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

|                          |
|--------------------------|
| 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: |
|-------------------------------------|

|               |                                              |                |             |            |
|---------------|----------------------------------------------|----------------|-------------|------------|
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|         |                                                                                                                                                                                                                                                                                                                                       |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | 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:                                                                                                                                                                                                                                                                                      |
|         | No information available                                                                                                                                                                                                                                                                                                              |
| 13.1.3. | Waste treatment – relevant information:                                                                                                                                                                                                                                                                                               |
|         | No information available                                                                                                                                                                                                                                                                                                              |
| 13.1.4. | Sewage disposal – relevant information:                                                                                                                                                                                                                                                                                               |
|         | Waste must not be disposed of into the sewage system.                                                                                                                                                                                                                                                                                 |
| 13.1.5. | Other disposal recommendations:                                                                                                                                                                                                                                                                                                       |
|         | Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. |
| 13.1.6. | Relevant Community provisions:                                                                                                                                                                                                                                                                                                        |
|         | -                                                                                                                                                                                                                                                                                                                                     |

| <b>SECTION 14 TRANSPORT INFORMATION</b> |                                                 |
|-----------------------------------------|-------------------------------------------------|
|                                         | Transporting/shipment by road (ADR)             |
| UN number:                              | Not subject to transport regulations.           |
| UN proper shipping name:                | -                                               |
| Transport hazard class(es):             | -                                               |
| Packing group:                          | -                                               |
| Environmental hazard(s):                | -                                               |
| Special precautions for user:           | -                                               |
|                                         | Transporting/shipment by rail (RID)             |
| UN number:                              | Not subject to transport regulations.           |
| UN proper shipping name:                | -                                               |
| Transport hazard class(es):             | -                                               |
| Packing group:                          | -                                               |
| Environmental hazard(s):                | -                                               |
| Special precautions for user:           | -                                               |
|                                         | Transporting/shipment by inland waterways (ADN) |
| UN number:                              | Not subject to transport regulations.           |
| UN proper shipping name:                | -                                               |
| Transport hazard class(es):             | -                                               |
| Packing group:                          | -                                               |

|               |                                       |                |             |          |   |
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|                                                                           |                                       |
|---------------------------------------------------------------------------|---------------------------------------|
| Environmental hazard(s):                                                  | -                                     |
| Special precautions for user:                                             | -                                     |
| Transporting/shipment by sea (IMDG)                                       |                                       |
| UN number:                                                                | Not subject to transport regulations. |
| UN proper shipping name:                                                  | -                                     |
| Transport hazard class(es):                                               | -                                     |
| Packing group:                                                            | -                                     |
| Environmental hazard(s):                                                  | -                                     |
| 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:                                                            | -                                     |
| Environmental hazard(s):                                                  | -                                     |
| Special precautions for user:                                             | -                                     |
| Further information:                                                      |                                       |
| -                                                                         |                                       |

| <b>SECTION 15. Regulatory information</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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</p> |

|               |                                       |                |             |          |   |
|---------------|---------------------------------------|----------------|-------------|----------|---|
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|       |                                                                                                              |                                                                                                                                                                                                                                                                                                                                  |
|-------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |                                                                                                              | November 2008 on waste and repealing certain Directives                                                                                                                                                                                                                                                                          |
|       | Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline) |                                                                                                                                                                                                                                                                                                                                  |
|       | National legislation:                                                                                        | Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Transport of Hazardous Substances Act |
| 15.2. | Chemical safety assessment                                                                                   |                                                                                                                                                                                                                                                                                                                                  |
|       | None                                                                                                         |                                                                                                                                                                                                                                                                                                                                  |

| SECTION 16. Other information |                                               |                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16.1.                         | Indication of changes:                        | -                                                                                                                                                                                                                                                                                                                                                                           |
| 16.2.                         | Abbreviations and acronyms:                   | <div>PBT                      Stable, bioaccumulative and toxic</div> <div>vPvB                   Strongly stable and strongly bioaccumulative.</div> <div>LD<sub>50</sub>                   Lethal dose, 50%</div> <div>LC<sub>50</sub>                   Lethal concentration, 50%</div> <div>STOT-SE              Specific target organ toxicity - single exposure</div> |
| 16.3.                         | Key literature references and source of data: | -                                                                                                                                                                                                                                                                                                                                                                           |
| 16.4.                         | Relevant H statements (number and full text)  |                                                                                                                                                                                                                                                                                                                                                                             |
|                               | H:                                            | <div>H302                   Harmful if swallowed.</div> <div>H319                   Causes serious eye irritation.</div>                                                                                                                                                                                                                                                    |
| 16.5.                         | Training advice:                              | -                                                                                                                                                                                                                                                                                                                                                                           |
| 16.6.                         | Further information:                          | <div>** "X" in the product code marks different volumes (different packagings of the product)</div> <div>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.</div>                                                                                  |

| ANNEX:                                                    |  |
|-----------------------------------------------------------|--|
| EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT |  |
| -                                                         |  |