

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

## SAFETY DATA SHEET

FR2-55/A HARDENER

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** : FR2-55/A HARDENER  
**SDS code** : 21055002D

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

| Identified uses                        |
|--|
| Paint. Professional use Industrial use |
| Uses advised against                   |
| All other uses                         |

**Product use** : Waterborne coating for interior use.

#### 1.3 Details of the supplier of the safety data sheet

MAPAERO SAS  
 10, Avenue de la Rijole CS30098  
 09103 PAMIERS Cedex  
 France

**e-mail address of person responsible for this SDS** : PSRA\_PAMIERS@akzonobel.com

#### 1.4 Emergency telephone number

##### National advisory body/Poison Center

**Telephone number** : +33 (0)1 40 05 48 48

##### Supplier

**Telephone number** : +33 (0)5 34 01 34 01  
 +33 (0)5 61 60 23 30

**Hours of operation** :

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226  
 Skin Sens. 1, H317  
 STOT SE 3, H336  
 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

**Date of issue/Date of revision** : 1-10-2022 **Version** : 1  
**Date of previous issue** : No previous validation 1/19

## SECTION 2: Hazards identification

### 2.2 Label elements

**Hazard pictograms**



**Signal word**

: Warning

**Hazard statements**

: Flammable liquid and vapor.  
 May cause an allergic skin reaction.  
 May cause drowsiness or dizziness.  
 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention**

: Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor.

**Response**

: IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

**Storage**

: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal**

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients**

: 2-ethoxy-1-methylethyl acetate  
 Polyisocyanate, aliphatic  
 hexamethylene-di-isocyanate  
 dibutyltin dilaurate

**Supplemental label elements**

: Contains isocyanates. May produce an allergic reaction.  
 As from 24 August 2023 adequate training is required before industrial or professional use.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

: Not applicable.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings**

: Not applicable.

**Tactile warning of danger**

: Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII**

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification**

: None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

| Product/ingredient name  | Identifiers  | %               | Regulation (EC) No. 1272/2008 [CLP]   | Type           |
|--|--|-----------------|---|----------------|
| 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(6-isocyanatohexyl)-, reaction products with polyethylene glycol monomethyl ether | CAS: 129217-88-5   | ≥50 - ≤75       | Aquatic Chronic 3, H412   | [1]            |
| 2-ethoxy-1-methylethyl acetate   | EC: 259-370-9<br>CAS: 54839-24-6<br>Index: 603-177-00-8                                    | ≥25 - ≤50       | Flam. Liq. 3, H226<br>STOT SE 3, H336   | [1]            |
| Polyisocyanate, aliphatic n-butyl acetate  | -<br>REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1 | ≥10 - ≤25<br>≤3 | Skin Sens. 1, H317<br>Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066   | [1]<br>[1] [2] |
| pentane-2,4-dione  | REACH #:<br>01-2119458968-15<br>EC: 204-634-0<br>CAS: 123-54-6<br>Index: 606-029-00-0      | <1              | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331  | [1]            |
| hexamethylene-di-isocyanate  | EC: 212-485-8<br>CAS: 822-06-0<br>Index: 615-011-00-1                                      | ≤0.3            | Acute Tox. 3, H331<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335   | [1] [2]        |
| dibutyltin dilaurate   | REACH #:<br>01-2119496068-27<br>EC: 201-039-8<br>CAS: 77-58-7                              | <0.3            | Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Muta. 2, H341<br>Repr. 1B, H360FD<br>STOT SE 1, H370 (thymus)<br>STOT RE 1, H372 (immune system)<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)<br><b>See Section 16 for the full text of the H statements declared above.</b> | [1] [2]        |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Polyisocyanate, aliphatic, hexamethylene-di-isocyanate, dibutyltin dilaurate. May produce an allergic reaction.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.

## SECTION 4: First aid measures

- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## SECTION 6: Accidental release measures

**6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds

##### Danger criteria

|                                       |                          |                |      |
|---------------------------------------|--------------------------|----------------|------|
| <b>Date of issue/Date of revision</b> | : 1-10-2022              | <b>Version</b> | : 1  |
| <b>Date of previous issue</b>         | : No previous validation |                | 6/19 |



## SECTION 7: Handling and storage

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| P5c      | 5000 tonne                      | 50000 tonne             |

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name     | Exposure limit values  |
|-----------------------------|--|
| n-butyl acetate             | <b>Ministry of Labor (France, 3/2020). Notes: Indicative limit values (circular)</b><br>STEL: 940 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation<br>STEL: 200 ppm 15 minutes. Form: Risk for sensitisation<br>TWA: 710 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation<br>TWA: 150 ppm 8 hours. Form: Risk for sensitisation                           |
| hexamethylene-di-isocyanate | <b>Ministry of Labor (France, 3/2020). Inhalation sensitizer. Notes: Indicative limit values (circular)</b><br>STEL: 0.15 mg/m <sup>3</sup> 5 minutes. Form: Risk for sensitisation<br>STEL: 0.02 ppm 5 minutes. Form: Risk for sensitisation<br>TWA: 0.075 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation<br>TWA: 0.01 ppm 8 hours. Form: Risk for sensitisation |
| dibutyltin dilaurate        | <b>Ministry of Labor (France, 3/2020). Notes: Indicative limit values (circular)</b><br>STEL: 0.2 mg/m <sup>3</sup> , (as Sn) 15 minutes. Form: Risk for sensitisation<br>TWA: 0.1 mg/m <sup>3</sup> , (as Sn) 8 hours. Form: Risk for sensitisation   |

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

**SECTION 8: Exposure controls/personal protection**

| Product/ingredient name        | Type              | Exposure              | Value                    | Population           | Effects            |          |
|--------------------------------|-------------------|-----------------------|--------------------------|----------------------|--------------------|----------|
| 2-ethoxy-1-methylethyl acetate | DNEL              | Long term Oral        | 13.1 mg/kg bw/day        | General population   | Systemic           |          |
|                                | DNEL              | Long term Dermal      | 62 mg/kg bw/day          | General population   | Systemic           |          |
|                                | DNEL              | Long term Dermal      | 103 mg/kg bw/day         | Workers              | Systemic           |          |
|                                | DNEL              | Long term Inhalation  | 181 mg/m <sup>3</sup>    | General population   | Systemic           |          |
|                                | DNEL              | Long term Inhalation  | 302 mg/m <sup>3</sup>    | Workers              | Systemic           |          |
|                                | DNEL              | Short term Inhalation | 365 mg/m <sup>3</sup>    | General population   | Systemic           |          |
|                                | DNEL              | Short term Inhalation | 608 mg/m <sup>3</sup>    | Workers              | Systemic           |          |
| n-butyl acetate                | DNEL              | Long term Oral        | 3.4 mg/kg bw/day         | General population   | Systemic           |          |
|                                | DNEL              | Long term Dermal      | 3.4 mg/kg bw/day         | General population   | Systemic           |          |
|                                | DNEL              | Long term Dermal      | 7 mg/kg bw/day           | Workers              | Systemic           |          |
|                                | DNEL              | Long term Inhalation  | 12 mg/m <sup>3</sup>     | General population   | Systemic           |          |
|                                | DNEL              | Long term Inhalation  | 48 mg/m <sup>3</sup>     | Workers              | Systemic           |          |
|                                | DNEL              | Long term Inhalation  | 102.34 mg/m <sup>3</sup> | General population   | Local              |          |
|                                | DNEL              | Long term Inhalation  | 480 mg/m <sup>3</sup>    | Workers              | Local              |          |
|                                | DNEL              | Short term Inhalation | 859.7 mg/m <sup>3</sup>  | General population   | Local              |          |
|                                | DNEL              | Short term Inhalation | 859.7 mg/m <sup>3</sup>  | General population   | Systemic           |          |
|                                | DNEL              | Short term Inhalation | 960 mg/m <sup>3</sup>    | Workers              | Local              |          |
|                                | DNEL              | Short term Inhalation | 960 mg/m <sup>3</sup>    | Workers              | Systemic           |          |
|                                | pentane-2,4-dione | DNEL                  | Long term Oral           | 7 mg/kg bw/day       | General population | Systemic |
|                                |                   | DNEL                  | Long term Dermal         | 12 mg/kg bw/day      | Workers            | Systemic |
|                                |                   | DNEL                  | Long term Inhalation     | 84 mg/m <sup>3</sup> | Workers            | Systemic |
| hexamethylene-di-isocyanate    | DNEL              | Long term Inhalation  | 0.035 mg/m <sup>3</sup>  | Workers              | Local              |          |
|                                | DNEL              | Long term Inhalation  | 0.035 mg/m <sup>3</sup>  | Workers              | Systemic           |          |
|                                | DNEL              | Short term Inhalation | 0.07 mg/m <sup>3</sup>   | Workers              | Local              |          |
|                                | DNEL              | Short term Inhalation | 0.07 mg/m <sup>3</sup>   | Workers              | Systemic           |          |
| dibutyltin dilaurate           | DNEL              | Short term Dermal     | 1 mg/kg bw/day           | Workers              | Systemic           |          |
|                                | DNEL              | Short term Inhalation | 0.07 mg/m <sup>3</sup>   | Workers              | Systemic           |          |
|                                | DNEL              | Long term Dermal      | 0.2 mg/kg bw/day         | Workers              | Systemic           |          |
|                                | DNEL              | Long term Inhalation  | 0.01 mg/m <sup>3</sup>   | Workers              | Systemic           |          |
|                                | DNEL              | Short term Dermal     | 0.5 mg/kg bw/day         | General population   | Systemic           |          |



## SECTION 8: Exposure controls/personal protection

|  |      |                       |                         |                                   |          |
|--|------|-----------------------|-------------------------|-----------------------------------|----------|
|  | DNEL | Short term Inhalation | 0.02 mg/m <sup>3</sup>  | [Consumers]<br>General population | Systemic |
|  | DNEL | Short term Oral       | 0.01 mg/kg bw/day       | [Consumers]<br>General population | Systemic |
|  | DNEL | Long term Dermal      | 0.08 mg/kg bw/day       | [Consumers]<br>General population | Systemic |
|  | DNEL | Long term Inhalation  | 0.003 mg/m <sup>3</sup> | [Consumers]<br>General population | Systemic |
|  | DNEL | Long term Oral        | 0.002 mg/kg bw/day      | [Consumers]<br>General population | Systemic |
|  | DNEL | Long term Oral        | 0.004 mg/kg bw/day      | [Consumers]<br>General population | Systemic |
|  | DNEL | Long term Inhalation  | 0.006 mg/m <sup>3</sup> | [Consumers]<br>General population | Systemic |
|  | DNEL | Short term Oral       | 0.02 mg/kg bw/day       | [Consumers]<br>General population | Systemic |
|  | DNEL | Long term Inhalation  | 0.02 mg/m <sup>3</sup>  | [Consumers]<br>Workers            | Systemic |
|  | DNEL | Short term Inhalation | 0.04 mg/m <sup>3</sup>  | [Consumers]<br>General population | Systemic |
|  | DNEL | Long term Dermal      | 0.16 mg/kg bw/day       | [Consumers]<br>General population | Systemic |
|  | DNEL | Long term Dermal      | 0.42 mg/kg bw/day       | [Consumers]<br>Workers            | Systemic |
|  | DNEL | Short term Dermal     | 1 mg/kg bw/day          | [Consumers]<br>General population | Systemic |
|  | DNEL | Short term Dermal     | 2.08 mg/kg bw/day       | [Consumers]<br>Workers            | Systemic |

### PNECs

| Product/ingredient name | Compartment Detail     | Value        | Method Detail |
|-------------------------|------------------------|--------------|---------------|
| dibutyltin dilaurate    | Fresh water            | 0.463 µg/l   | -             |
|                         | Marine water           | 0.0463 µg/l  | -             |
|                         | Fresh water sediment   | 0.05 mg/kg   | -             |
|                         | Marine water sediment  | 0.005 mg/kg  | -             |
|                         | Soil                   | 0.0407 mg/kg | -             |
|                         | Sewage Treatment Plant | 100 mg/l     | -             |
|                         |                        |              |               |

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## SECTION 8: Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness ≥ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness ≥ 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material.
- The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
- The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Color** : Colorless.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.

**SECTION 9: Physical and chemical properties**

|   |  |
|---|--|
| <b>Initial boiling point and boiling range</b>      | : Not available.   |
| <b>Flash point</b>                                  | : Closed cup: 59°C   |
| <b>Evaporation rate</b>                             | : Not available.   |
| <b>Flammability (solid, gas)</b>                    | : Not available.   |
| <b>Upper/lower flammability or explosive limits</b> | : Not available.   |
| <b>Vapor pressure</b>                               | : Not available.   |
| <b>Vapor density</b>                                | : Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 1.23 (Air = 1)               |
| <b>Density</b>                                      | : 1.083 g/cm <sup>3</sup>  |
| <b>Solubility(ies)</b>                              | : Insoluble in the following materials: cold water.  |
| <b>Partition coefficient: n-octanol/ water</b>      | : Not available.   |
| <b>Auto-ignition temperature</b>                    | : Not available.   |
| <b>Decomposition temperature</b>                    | : Not available.   |
| <b>Viscosity</b>                                    | : Kinematic (room temperature): 0.83 cm <sup>2</sup> /s<br>Kinematic (40°C): 0.51 cm <sup>2</sup> /s |

**SECTION 10: Stability and reactivity**

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| <b>10.2 Chemical stability</b>                 | : The product is stable.  |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>10.4 Conditions to avoid</b>                | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| <b>10.5 Incompatible materials</b>             | : Reactive or incompatible with the following materials:<br>oxidizing materials   |
| <b>10.6 Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

| Product/ingredient name | Result                | Species    | Dose               | Exposure |
|-------------------------|-----------------------|------------|--------------------|----------|
| n-butyl acetate         | LC50 Inhalation Gas.  | Rat        | 390 ppm            | 4 hours  |
|                         | LC50 Inhalation Vapor | Mouse      | 6 g/m <sup>3</sup> | 2 hours  |
|                         | LD50 Dermal           | Rabbit     | >17600 mg/kg       | -        |
|                         | LD50 Intraperitoneal  | Mouse      | 1230 mg/kg         | -        |
|                         | LD50 Oral             | Guinea pig | 4700 mg/kg         | -        |
|                         | LD50 Oral             | Mouse      | 6 g/kg             | -        |
|                         | LD50 Oral             | Rabbit     | 3200 mg/kg         | -        |
|                         | LD50 Oral             | Rat        | 10768 mg/kg        | -        |
| pentane-2,4-dione       | LD50 Dermal           | Rabbit     | 810 uL/kg          | -        |
|                         | LD50 Intraperitoneal  | Mouse      | 750 mg/kg          | -        |
|                         | LD50 Oral             | Mouse      | 951 mg/kg          | -        |

Date of issue/Date of revision

: 1-10-2022

Version : 1

Date of previous issue

: No previous validation

11/19

## SECTION 11: Toxicological information

|                             |                                 |           |                       |         |
|-----------------------------|---------------------------------|-----------|-----------------------|---------|
| hexamethylene-di-isocyanate | LD50 Oral                       | Rat       | 55 mg/kg              | -       |
|                             | LD50 Oral                       | Rat       | 55 mg/kg              | -       |
|                             | LC50 Inhalation Dusts and mists | Rat       | 124 mg/m <sup>3</sup> | 4 hours |
| dibutyltin dilaurate        | LC50 Inhalation Dusts and mists | Rat       | 462 mg/m <sup>3</sup> | 4 hours |
|                             | LD50 Dermal                     | Rabbit    | 570 µL/kg             | -       |
|                             | LD50 Intravenous                | Mouse     | 5600 µg/kg            | -       |
|                             | LD50 Oral                       | Mouse     | 350 mg/kg             | -       |
|                             | LD50 Oral                       | Rat       | 710 µL/kg             | -       |
|                             | LC50 Inhalation Dusts and mists | Mouse     | 150 mg/m <sup>3</sup> | 2 hours |
|                             | LD50 Intraperitoneal            | Mouse     | 180 mg/kg             | -       |
|                             | LD50 Intravenous                | Rat       | 33 mg/kg              | -       |
|                             | LD50 Oral                       | Mouse     | 210 mg/kg             | -       |
| LD50 Oral                   | Rabbit                          | 100 mg/kg | -                     |         |
| LD50 Oral                   | Rat                             | 175 mg/kg | -                     |         |

**Conclusion/Summary** : Not available.

### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure           | Observation |
|-------------------------|--------------------------|---------|-------|--------------------|-------------|
| n-butyl acetate         | Eyes - Moderate irritant | Rabbit  | -     | 100 mg             | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg    | -           |
| pentane-2,4-dione       | Eyes - Severe irritant   | Rabbit  | -     | 20 mg              | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 488 mg             | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 6 hours 11.2 MI I  | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 48 hours 11.2 MI I | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 6 hours 33.6 MI I  | -           |

**Conclusion/Summary** : Not available.

### Sensitization

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

| Product/ingredient name        | Category   | Route of exposure | Target organs                |
|--------------------------------|------------|-------------------|------------------------------|
| 2-ethoxy-1-methylethyl acetate | Category 3 | -                 | Narcotic effects             |
| n-butyl acetate                | Category 3 | -                 | Narcotic effects             |
| hexamethylene-di-isocyanate    | Category 3 | -                 | Respiratory tract irritation |
| dibutyltin dilaurate           | Category 1 | -                 | thymus                       |

### Specific target organ toxicity (repeated exposure)

## SECTION 11: Toxicological information

| Product/ingredient name | Category   | Route of exposure | Target organs |
|-------------------------|------------|-------------------|---------------|
| dibutyltin dilaurate    | Category 1 | -                 | immune system |

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

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

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

**Other information** : Not available.

**SECTION 12: Ecological information****12.1 Toxicity**

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

| Product/ingredient name           | Result                              | Species                           | Exposure                                       |          |
|-----------------------------------|-------------------------------------|-----------------------------------|--|----------|
| n-butyl acetate                   | Acute LC50 32 mg/l Marine water     | Crustaceans - Artemia salina      | 48 hours                                       |          |
|                                   | Acute LC50 100000 µg/l Fresh water  | Fish - Lepomis macrochirus        | 96 hours                                       |          |
|                                   | Acute LC50 18000 µg/l Fresh water   | Fish - Pimephales promelas        | 96 hours                                       |          |
|                                   | Acute LC50 185000 µg/l Marine water | Fish - Menidia beryllina          | 96 hours                                       |          |
|                                   | Acute LC50 62000 µg/l Fresh water   | Fish - Danio rerio                | 96 hours                                       |          |
|                                   | pentane-2,4-dione                   | Acute EC50 75000 µg/l Fresh water | Crustaceans - Ceriodaphnia reticulata - Larvae | 48 hours |
|                                   |                                     | Acute EC50 75000 µg/l Fresh water | Daphnia - Daphnia magna - Larvae               | 48 hours |
|                                   |                                     | Acute EC50 75000 µg/l Fresh water | Daphnia - Daphnia pulex - Larvae               | 48 hours |
|                                   |                                     | Acute LC50 35400 µl/L Fresh water | Daphnia - Daphnia magna                        | 48 hours |
|                                   |                                     | Acute LC50 47600 µg/l Fresh water | Daphnia - Daphnia magna - Neonate              | 48 hours |
| Acute LC50 74300 µg/l Fresh water |                                     | Fish - Lepomis macrochirus        | 96 hours                                       |          |
| Acute LC50 66900 µg/l Fresh water |                                     | Fish - Lepomis macrochirus        | 96 hours                                       |          |
| Acute LC50 60100 µg/l Fresh water |                                     | Fish - Lepomis macrochirus        | 96 hours                                       |          |
| Acute LC50 71600 µg/l Fresh water |                                     | Fish - Oncorhynchus mykiss        | 96 hours                                       |          |
| Acute LC50 71700 µg/l Fresh water |                                     | Fish - Oncorhynchus mykiss        | 96 hours                                       |          |

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

**Conclusion/Summary** : Not available.

**12.3 Bioaccumulative potential**

| Product/ingredient name        | LogP <sub>ow</sub> | BCF   | Potential |
|--------------------------------|--------------------|-------|-----------|
| 2-ethoxy-1-methylethyl acetate | 0.76               | -     | low       |
| n-butyl acetate                | 2.3                | -     | low       |
| pentane-2,4-dione              | 0.68               | -     | low       |
| hexamethylene-diisocyanate     | 0.02               | 57.63 | low       |
| dibutyltin dilaurate           | 4.44               | 2.91  | low       |

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.



## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

**Disposal considerations** : Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6).  
Dispose of according to all federal, state and local applicable regulations.  
If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.  
For further information, contact your local waste authority.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code    | Waste designation   |
|---------------|---|
| EWC 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |




#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.  
Empty containers must be scrapped or reconditioned.  
Dispose of containers contaminated by the product in accordance with local or national legal provisions.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                                 | ADR/RID  | IMDG   | IATA   |
|---------------------------------|--|--|--|
| 14.1 UN number                  | UN1263   | UN1263   | UN1263   |
| 14.2 UN proper shipping name    | PAINT  | PAINT  | PAINT  |
| 14.3 Transport hazard class(es) | 3<br> | 3<br> | 3<br> |
| 14.4 Packing group              | III  | III  | III  |

Date of issue/Date of revision : 1-10-2022

Version : 1

Date of previous issue : No previous validation

15/19

## SECTION 14: Transport information

|                               |     |     |     |
|-------------------------------|-----|-----|-----|
| 14.5<br>Environmental hazards | No. | No. | No. |
|-------------------------------|-----|-----|-----|

### Additional information

ADR/RID : **Tunnel code** (D/E)  
 IMDG : **Emergency schedules** F-E, \_S-E\_

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not applicable.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorization

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

#### Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use Mixture : Not applicable.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

| Ingredient name      | Annex            | Status |
|----------------------|------------------|--------|
| dibutyltin dilaurate | Annex I - Part 1 | Listed |

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

**SECTION 15: Regulatory information****Category**

P5c

**National regulations**

|  |  |                |
|--|--|----------------|
| <b>Industrial use</b>                                    | : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work. |                |
| <b>Social Security Code, Articles L 461-1 to L 461-7</b> | : n-butyl acetate<br>hexamethylene-di-isocyanate   | RG 84<br>RG 62 |
| <b>Reinforced medical surveillance</b>                   | : Decree n ° 2012-135 of January 30, 2012 relating to the organization of occupational medicine: not applicable  |                |

**International regulations****Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.


**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list****Europe** : Not determined.**15.2 Chemical Safety Assessment** : No Chemical Safety Assessment has been carried out.**SECTION 16: Other information**

 Indicates information that has changed from previously issued version.

|                                   |  |
|-----------------------------------|--|
| <b>Abbreviations and acronyms</b> | : ATE = Acute Toxicity Estimate<br>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]<br>DMEL = Derived Minimal Effect Level<br>DNEL = Derived No Effect Level<br>EUH statement = CLP-specific Hazard statement<br>N/A = Not available<br>PBT = Persistent, Bioaccumulative and Toxic<br>PNEC = Predicted No Effect Concentration<br>RRN = REACH Registration Number<br>SGG = Segregation Group<br>vPvB = Very Persistent and Very Bioaccumulative |
|-----------------------------------|--|

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification   | Justification   |
|--|---|
| Flam. Liq. 3, H226<br>Skin Sens. 1, H317<br>STOT SE 3, H336<br>Aquatic Chronic 3, H412 | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method |

**Full text of abbreviated H statements**

|                                       |                          |                    |
|---------------------------------------|--------------------------|--------------------|
| <b>Date of issue/Date of revision</b> | : 1-10-2022              | <b>Version</b> : 1 |
| <b>Date of previous issue</b>         | : No previous validation | 17/19              |

**SECTION 16: Other information**

|        |  |
|--------|--|
| H226   | Flammable liquid and vapor.  |
| H302   | Harmful if swallowed.  |
| H311   | Toxic in contact with skin.  |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                                       |
| H319   | Causes serious eye irritation.   |
| H331   | Toxic if inhaled.  |
| H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335   | May cause respiratory irritation.  |
| H336   | May cause drowsiness or dizziness.   |
| H341   | Suspected of causing genetic defects.                                      |
| H360FD | May damage fertility. May damage the unborn child.                         |
| H370   | Causes damage to organs.   |
| H372   | Causes damage to organs through prolonged or repeated exposure.            |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.                      |
| H412   | Harmful to aquatic life with long lasting effects.                         |
| EUH066 | Repeated exposure may cause skin dryness or cracking.                      |

**Full text of classifications [CLP/GHS]**

|                   |   |
|-------------------|---|
| Acute Tox. 3      | ACUTE TOXICITY - Category 3                                     |
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
| Aquatic Acute 1   | AQUATIC HAZARD (ACUTE) - Category 1                             |
| Aquatic Chronic 1 | AQUATIC HAZARD (LONG-TERM) - Category 1                         |
| Aquatic Chronic 3 | AQUATIC HAZARD (LONG-TERM) - Category 3                         |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2                 |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                                  |
| Muta. 2           | GERM CELL MUTAGENICITY - Category 2                             |
| Repr. 1B          | TOXIC TO REPRODUCTION - Category 1B                             |
| Resp. Sens. 1     | RESPIRATORY SENSITIZATION - Category 1                          |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                          |
| Skin Sens. 1      | SKIN SENSITIZATION - Category 1                                 |
| STOT RE 1         | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
| STOT SE 1         | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1   |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3   |

|  |                          |
|--|--------------------------|
| <b>Date of printing</b>                | : 27 October 2022        |
| <b>Date of issue/ Date of revision</b> | : 1 October 2022         |
| <b>Date of previous issue</b>          | : No previous validation |
| <b>Version</b>                         | : 1                      |
| <b>Unique ID</b>                       | :                        |

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| <b>Date of issue/Date of revision</b> | : 1-10-2022              | <b>Version</b> | : 1   |
| <b>Date of previous issue</b>         | : No previous validation |                | 18/19 |

## SECTION 16: Other information

carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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