## **AkzoNobel**

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

## SAFETY DATA SHEET

FR2-55-SG-TINT SEMI-GLOSS BASE YELLOW SF3125

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

1.1 Product identifier

Product name : FR2-55-SG-TINT SEMI-GLOSS BASE YELLOW SF3125

**SDS code** : 55993125B

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

Identified uses

Materborne 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

: PSRA PAMIERS@akzonobel.com

responsible for this SDS

#### 1.4 Emergency telephone number

National advisory body/Poison Center

**Telephone number** : +358 (0)9 471977

**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]

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.

#### 2.2 Label elements

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### **SECTION 2: Hazards identification**

Signal word : No signal word.

**Hazard statements** : Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: Avoid release to the environment.

Response : Not applicable.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Supplemental label

elements

: Contains C(M)IT/MIT(3:1). May produce an allergic reaction.

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.<br>1272/2008 [CLP]  | Туре    |
|-----------------------------|--|---------|---|---------|
| 2-butoxyethanol             | REACH #:<br>01-2119475108-36<br>EC: 203-905-0<br>CAS: 111-76-2<br>Index: 603-014-00-0  | <1      | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                     | [1] [2] |
| trizinc bis(orthophosphate) | REACH #:<br>01-2119485044-40<br>EC: 231-944-3<br>CAS: 7779-90-0<br>Index: 030-011-00-6 | ≤1      | Aquatic Acute 1, H400<br>(M=1)<br>Aquatic Chronic 1,<br>H410 (M=1)  | [1]     |
| ammonia, anhydrous          | EC: 231-635-3<br>CAS: 7664-41-7<br>Index: 007-001-00-5                                 | <0.1    | Flam. Gas 2, H221<br>Press. Gas (Comp.),<br>H280<br>Acute Tox. 3, H331<br>Skin Corr. 1B, H314<br>Aquatic Acute 1, H400<br>(M=1) | [1] [2] |
| C(M)IT/MIT(3:1)             | REACH #:<br>01-2120764691-48<br>CAS: 55965-84-9  | <0.0015 | Acute Tox. 3, H301<br>Acute Tox. 2, H310<br>Acute Tox. 2, H330  | [1]     |

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|                | position/information on i                             | 9    | 101: 0 40 1:044   | 1       |
|----------------|---|------|---|---------|
|                | Index: 613-167-00-5                                   |      | Skin Corr. 1C, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071  |         |
| 1,4-dioxane    | EC: 204-661-8<br>CAS: 123-91-1<br>Index: 603-024-00-5 | <0.1 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>Carc. 1B, H350<br>STOT SE 3, H335<br>EUH019<br>EUH066   | [1] [2] |
| ethylene oxide | EC: 200-849-9<br>CAS: 75-21-8<br>Index: 603-023-00-X  | <0.1 | Flam. Gas 1A, H220 Press. Gas (Comp.), H280 Acute Tox. 3, H301 Acute Tox. 3, H331 Skin Corr. 1, H314 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360Fd STOT SE 3, H335 STOT SE 3, H336 STOT RE 1, H372 (nervous system) See Section 16 for the full text of the H statements declared above. | [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 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 adverse health effects persist or are severe. 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** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

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#### **SECTION 4: First aid measures**

#### 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 adverse health effects persist or are severe. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 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. 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.

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

Ingestion may cause nausea, diarrhea and vomiting.

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.

Contains C(M)IT/MIT(3:1). May produce an allergic reaction.

#### Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.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

: Use an extinguishing agent suitable for the surrounding fire.

media

Unsuitable extinguishing :

media

: None known.

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

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst. 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.

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## **SECTION 5: Firefighting measures**

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide halogenated compounds metal oxide/oxides

#### 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.

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. 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".

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. 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. 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.

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## **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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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.

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

## **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

2-butoxyethanol Institute of Occupational Health, Ministry of Social Affairs (Finland, 12/2019). Absorbed through skin.

TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours.

STEL: 50 ppm 15 minutes. STEL: 250 mg/m³ 15 minutes.

ammonia, anhydrous Institute of Occupational Health, Ministry of Social Affairs

(Finland, 12/2019).

STEL: 36 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 14 mg/m³ 8 hours. TWA: 20 ppm 8 hours.

1,4-dioxane Institute of Occupational Health, Ministry of Social Affairs

(Finland, 12/2019). Absorbed through skin.

STEL: 150 mg/m³ 15 minutes. STEL: 40 ppm 15 minutes. TWA: 36 mg/m³ 8 hours. TWA: 10 ppm 8 hours.

ethylene oxide Institute of Occupational Health, Ministry of Social Affairs

(Finland, 12/2019). Absorbed through skin.

TWA: 1 ppm 8 hours. TWA: 1.8 mg/m³ 8 hours.

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## SECTION 8: Exposure controls/personal protection

## procedures

Recommended monitoring: 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**

| Product/ingredient name       | Туре  | Exposure                | Value                 | Population            | Effects   |
|-------------------------------|-------|-------------------------|-----------------------|-----------------------|-----------|
| 2-butoxyethanol               | DNEL  | Long term Oral          | 6.3 mg/kg             | General               | Systemic  |
|                               | DATE  | 0                       | bw/day                | population            |           |
|                               | DNEL  | Short term Oral         | 26.7 mg/              | General               | Systemic  |
|                               | DNIEL | Lang tames              | kg bw/day             | population            | Cyatamaia |
|                               | DNEL  | Long term<br>Inhalation | 59 mg/m <sup>3</sup>  | General               | Systemic  |
|                               | DNEL  | Long term Dermal        | 75 mg/kg              | population<br>General | Systemic  |
|                               | DIVLL | Long term Dermai        | bw/day                | population            | Gysternic |
|                               | DNEL  | Short term Dermal       | 89 mg/kg              | General               | Systemic  |
|                               |       |                         | bw/day                | population            |           |
|                               | DNEL  | Short term Dermal       | 89 mg/kg<br>bw/day    | Workers               | Systemic  |
|                               | DNEL  | Long term<br>Inhalation | 98 mg/m³              | Workers               | Systemic  |
|                               | DNEL  | Long term Dermal        | 125 mg/kg<br>bw/day   | Workers               | Systemic  |
|                               | DNEL  | Short term              | 147 mg/m³             | General               | Local     |
|                               |       | Inhalation              | _                     | population            |           |
|                               | DNEL  | Short term              | 246 mg/m <sup>3</sup> | Workers               | Local     |
|                               |       | Inhalation              |                       |                       |           |
|                               | DNEL  | Short term              | 426 mg/m <sup>3</sup> | General               | Systemic  |
|                               | 5.151 | Inhalation              |                       | population            |           |
|                               | DNEL  | Short term              | 1091 mg/              | Workers               | Systemic  |
| trizina his (arthonhasanhata) | DNEL  | Inhalation              | m <sup>3</sup>        | General               | Systemia  |
| trizinc bis(orthophosphate)   | DINEL | Long term Oral          | 0.83 mg/<br>kg bw/day | population            | Systemic  |
|                               | DNEL  | Long term               | 2.5 mg/m <sup>3</sup> | General               | Systemic  |
|                               | DIVLL | Inhalation              | 2.5 mg/m              | population            | Cysternic |
|                               | DNEL  | Long term               | 5 mg/m³               | Workers               | Systemic  |
|                               |       | Inhalation              | Jg,                   |                       |           |
|                               | DNEL  | Long term Dermal        | 83 mg/kg              | General               | Systemic  |
|                               |       |                         | bw/day                | population            |           |
|                               | DNEL  | Long term Dermal        | 83 mg/kg<br>bw/day    | Workers               | Systemic  |
| ammonia, anhydrous            | DNEL  | Long term               | 2.8 mg/m <sup>3</sup> | General               | Local     |
|                               |       | Inhalation              |                       | population            |           |
|                               | DNEL  | Short term Oral         | 6.8 mg/kg             | General               | Systemic  |
|                               |       |                         | bw/day                | population            |           |
|                               | DNEL  | Long term Oral          | 6.8 mg/kg             | General               | Systemic  |
|                               | חאבי  | Ob                      | bw/day                | population            | 0         |
|                               | DNEL  | Short term Dermal       | 6.8 mg/kg<br>bw/day   | Workers               | Systemic  |
|                               | DNEL  | Long term Dermal        | 6.8 mg/kg<br>bw/day   | Workers               | Systemic  |
|                               | DNEL  | Short term              | 7.2 mg/m <sup>3</sup> | General               | Local     |

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

| 22 Hert of Expedition Controls, personal protection |       |                          |                        |            |           |
|---|-------|--------------------------|------------------------|------------|-----------|
|   |       | Inhalation               |                        | population |           |
|   | DNEL  | Long term                | 14 mg/m³               | Workers    | Local     |
|   |       | Inhalation               |                        |            |           |
|   | DNEL  | Short term               | 16 mg/m³               | Workers    | Local     |
|   |       | Inhalation               |                        | _          |           |
|   | DNEL  | Short term               | 23.8 mg/m <sup>3</sup> |            | Systemic  |
|   | DAIEI | Inhalation               | 00 0 / 3               | population |           |
|   | DNEL  | Long term                | 23.8 mg/m <sup>3</sup> |            | Systemic  |
|   | DNE   | Inhalation               | 47.0 / 3               | population | 0         |
|   | DNEL  | Short term               | 47.6 mg/m <sup>3</sup> | Workers    | Systemic  |
|   | DNEL  | Inhalation<br>Long term  | 47.6 mg/m³             | Morkoro    | Systemic  |
|   | DINEL | Inhalation               | 47.6 mg/m              | VVOIKEIS   | Systemic  |
|   | DNEL  | Short term Dermal        | 68 mg/kg               | General    | Systemic  |
|   | DINCL | Official Definal         | bw/day                 | population | Cysternic |
|   | DNEL  | Long term Dermal         | 68 mg/kg               | General    | Systemic  |
|   |       |                          | bw/day                 | population |           |
| 1,4-dioxane   | DNEL  | Long term Oral           | 0.24 mg/               | General    | Systemic  |
| ,   |       | ŭ                        | kg bw/day              | population | ,         |
|   | DNEL  | Long term Dermal         | 12 mg/kg               | General    | Systemic  |
|   |       |                          | bw/day                 | population | -         |
|   | DNEL  | Long term                | 18.25 mg/              | General    | Systemic  |
|   |       | Inhalation               | m³                     | population |           |
|   | DNEL  | Long term Dermal         | 21 mg/kg               | Workers    | Systemic  |
|   |       |                          | bw/day                 |            |           |
|   | DNEL  | Short term               | 72 mg/m³               | General    | Local     |
|   | DNE   | Inhalation               | 70/3                   | population | 0         |
|   | DNEL  | Long term                | 73 mg/m³               | Workers    | Systemic  |
|   | DNEL  | Inhalation<br>Short term | 144 mg/m³              | Workers    | Local     |
|   | DINEL | Inhalation               | 144 mg/m³              | VVOIKEIS   | Local     |
|   |       | IIIIIalallUII            |                        |            |           |

#### **PNECs**

No PNECs available.

#### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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.

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## SECTION 8: Exposure controls/personal protection

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.

: Personal protective equipment for the body should be selected based on the task **Body protection** 

being performed and the risks involved and should be approved by a specialist

before handling this product.

: Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

: 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** 

Respiratory protection

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 : Yellow.

Odor : Characteristic. : Not available. Odor threshold

pН : 8

Melting point/freezing point : Not available. Initial boiling point and : Not available.

boiling range Flash point

: Closed cup: 105°C

**Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available.

explosive limits

Vapor pressure : Not available.

: Highest known value: (Oxirane, 2-methyl-, polymer with oxirane, monobutyl Vapor density

ether).

: 1.308 g/cm<sup>3</sup> Density

Solubility(ies) : Easily soluble in the following materials: cold water.

Partition coefficient: n-octanol/ : Not available.

water

**Auto-ignition temperature** : Not available.

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## **SECTION 9: Physical and chemical properties**

**Decomposition temperature** 

: Not available.

**Viscosity** 

: Kinematic (room temperature): 4.43 cm<sup>2</sup>/s

Kinematic (40°C): 2.01 cm<sup>2</sup>/s

### **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: 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**

| Result                 | Species  | Dose   | Exposure   |
|------------------------|--|--|--|
| LC50 Inhalation Gas.   | Mouse  | 700 ppm  | 7 hours  |
| LC50 Inhalation Gas.   | Rat  | 450 ppm  | 4 hours  |
| LC50 Inhalation Vapor  | Mouse  | 3380 mg/m <sup>3</sup>   | 7 hours  |
| LC50 Inhalation Vapor  | Rat  | 2900 mg/m <sup>3</sup>   | 7 hours  |
| LD50 Dermal            | Guinea pig   | 230 uL/kg  | -  |
| LD50 Dermal            | Rabbit   | 220 mg/kg  | -  |
| LD50 Intraperitoneal   | Mouse  | 536 mg/kg  | -  |
| LD50 Intraperitoneal   | Rabbit   | 220 mg/kg  | -  |
| LD50 Intraperitoneal   | Rat  | 220 mg/kg  | -  |
| LD50 Intravenous       | Mouse  | 1130 mg/kg   | -  |
| LD50 Intravenous       | Rabbit   | 252 mg/kg  | -  |
| LD50 Intravenous       | Rat  |  | -  |
| LD50 Oral              | Guinea pig   | 1200 mg/kg   | -  |
| LD50 Oral              | Mouse  | 1230 mg/kg   | -  |
| LD50 Oral              | Mouse  | 1167 mg/kg   | -  |
| LD50 Oral              | Rabbit   | 300 mg/kg  | -  |
| LD50 Oral              | Rabbit   | 320 mg/kg  | -  |
| LD50 Oral              | Rat  | 917 mg/kg  | -  |
| LD50 Oral              | Rat  | 250 mg/kg  | -  |
| LD50 Route of exposure | Mouse  | 1050 mg/kg   | -  |
| unreported             |  |  |  |
| LD50 Route of exposure | Rat  | 917 mg/kg  | -  |
| unreported             |  |  |  |
| LD50 Intraperitoneal   | Mouse  | 552 mg/kg  | -  |
| LD50 Intraperitoneal   | Rat  | 551 mg/kg  | -  |
| LC50 Inhalation Gas.   | Mouse  | 4230 ppm   | 1 hours  |
| LC50 Inhalation Gas.   | Mouse  | 4500 ppm   | 1 hours  |
| LC50 Inhalation Gas.   | Mouse  | 21430 ppm  | 30 minutes   |
| LC50 Inhalation Gas.   | Rat  | 9500 ppm   | 1 hours  |
| LC50 Inhalation Gas.   | Rat  | 17401 ppm  | 15 minutes   |
| LC50 Inhalation Gas.   | Rat  | 2000 ppm   | 4 hours  |
|                        | LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Vapor LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Route of exposure unreported LD50 Route of exposure unreported LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Gas. | LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Vapor Rat LD50 Dermal LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral Rabbit LD50 Oral Rabbit LD50 Oral Rabbit LD50 Route of exposure unreported LD50 Route of exposure unreported LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Gas. Rat Rat LC50 Inhalation Gas. Rat | LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Gas. LC50 Inhalation Vapor LD50 Dermal LD50 Dermal LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Oral LD50 Intravenous Rat LD50 Oral LD50 Oral LD50 Oral LD50 Intravenous Rat LD50 Oral LD50 Intravenous Rat LD50 Oral LD50 Intravenous Rat LD50 Oral LD50 Intravenous LD50 Intravenous Rat |

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## **SECTION 11: Toxicological information**

| 1              | 1                     | 1          | 1                       | 1          |
|----------------|-----------------------|------------|-------------------------|------------|
|                | •                     | Mouse      | 4600 mg/m³              | 2 hours    |
|                | LC50 Inhalation Vapor | Rabbit     | 7 g/m³                  | 1 hours    |
|                | LC50 Inhalation Vapor | Rat        | 7040 mg/m <sup>3</sup>  | 30 minutes |
|                | LC50 Inhalation Vapor | Rat        | 4673 mg/kg              | 4 hours    |
|                | LC50 Inhalation Vapor | Rat        | 4673 mg/kg              | 4 hours    |
|                | LC50 Inhalation Vapor | Rat        | 18600 mg/m <sup>3</sup> | 5 minutes  |
| 1,4-dioxane    | LC50 Inhalation Vapor | Mouse      | 37 g/m³                 | 2 hours    |
|                | LC50 Inhalation Vapor | Rat        | 46 g/m³                 | 2 hours    |
|                | LD50 Dermal           | Rabbit     | 7600 uL/kg              | -          |
|                | LD50 Intraperitoneal  | Mouse      | 790 mg/kg               | -          |
|                | LD50 Intraperitoneal  | Rat        | 799 mg/kg               | -          |
|                | LD50 Oral             | Guinea pig | 3150 mg/kg              | -          |
|                | LD50 Oral             | Mouse      | 5300 mg/kg              | -          |
|                | LD50 Oral             | Rabbit     | 2 g/kg                  | -          |
|                | LD50 Oral             | Rat        | 4200 mg/kg              | -          |
| ethylene oxide | LC50 Inhalation Gas.  | Mouse      | 835 ppm                 | 4 hours    |
|                | LC50 Inhalation Gas.  | Rat        | 800 ppm                 | 4 hours    |
|                | LC50 Inhalation Gas.  | Rat        | 1460 ppm                | 4 hours    |
|                | LC50 Inhalation Vapor | Guinea pig | 1500 mg/m <sup>3</sup>  | 4 hours    |
|                | LD50 Intraperitoneal  | Mouse      | 175 mg/kg               | -          |
|                | LD50 Intravenous      | Mouse      | 290 mg/kg               | -          |
|                | LD50 Oral             | Guinea pig | 270 mg/kg               | -          |
|                | LD50 Oral             | Rat        | 72 mg/kg                | -          |
|                | LD50 Subcutaneous     | Rat        | 187 mg/kg               | -          |

**Conclusion/Summary** 

: Not available.

#### **Irritation/Corrosion**

| Product/ingredient name | Result                   | Species    | Score | Exposure     | Observation |
|-------------------------|--------------------------|------------|-------|--------------|-------------|
| 2-butoxyethanol         | Eyes - Moderate irritant | Rabbit     | -     | 24 hours 100 | -           |
|                         |                          |            |       | mg           |             |
|                         | Eyes - Severe irritant   | Rabbit     | -     | 100 mg       | -           |
|                         | Skin - Mild irritant     | Rabbit     | -     | 500 mg       | -           |
| 1,4-dioxane             | Eyes - Moderate irritant | Guinea pig | -     | 10 ug        | -           |
|                         | Eyes - Moderate irritant | Rabbit     | -     | 24 hours 100 | -           |
|                         |                          |            |       | mg           |             |
|                         | Eyes - Severe irritant   | Rabbit     | -     | 100 mg       | -           |
|                         | Skin - Mild irritant     | Rabbit     | -     | 515 mg       | -           |
| ethylene oxide          | Eyes - Moderate irritant | Rabbit     | -     | 6 hours 18   | -           |
|                         |                          |            |       | mg           |             |

Conclusion/Summary

: Not available.

**Sensitization** 

Conclusion/Summary : Not available.

**Mutagenicity** 

| Product/ingredient name | Test | Experiment                | Result   |
|-------------------------|------|---------------------------|----------|
| ethylene oxide          | -    | Subject: Mammalian-Animal | Positive |

**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)** 

Not available.

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## **SECTION 11: Toxicological information**

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

: Not available.

routes of exposure

#### Potential acute health effects

Eye contact
 Inhalation
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

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

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

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

#### Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.
 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.

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## **SECTION 12: Ecological information**

| Product/ingredient name     | Result                               | Species  | Exposure |
|-----------------------------|--------------------------------------|--|----------|
| 2-butoxyethanol             | Acute EC50 >1000 mg/l Fresh water    | Daphnia - Daphnia magna                            | 48 hours |
| ,                           | Acute LC50 800000 µg/l Marine water  | Crustaceans - Crangon crangon                      | 48 hours |
|                             | Acute LC50 1490000 µg/l Fresh water  | Fish - Lepomis macrochirus                         | 96 hours |
|                             | Acute LC50 1250000 µg/l Marine water | Fish - Menidia beryllina                           | 96 hours |
| trizinc bis(orthophosphate) | Acute LC50 90 µg/l Fresh water       | Fish - Oncorhynchus mykiss                         | 96 hours |
| ammonia, anhydrous          | Acute EC50 29.2 mg/l Marine water    | Algae - Ulva fasciata - Zoea                       | 96 hours |
|                             | Acute LC50 2500 µg/l Fresh water     | Crustaceans - Asellus aquaticus                    | 48 hours |
|                             | Acute LC50 4980 μg/l Marine water    | Crustaceans - Penaeus<br>japonicus - Nauplii       | 48 hours |
|                             | Acute LC50 5210 μg/l Marine water    | Crustaceans - Fenneropenaeus penicillatus - Zoea   | 48 hours |
|                             | Acute LC50 2080 μg/l Fresh water     | Crustaceans - Gammarus pulex                       | 48 hours |
|                             | Acute LC50 2710 μg/l Fresh water     | Crustaceans - Ceriodaphnia reticulata              | 48 hours |
|                             | Acute LC50 0.53 ppm Fresh water      | Daphnia - Daphnia magna                            | 48 hours |
|                             | Acute LC50 25400 µg/l Fresh water    | Daphnia - Daphnia magna                            | 48 hours |
|                             | Acute LC50 4180 µg/l Fresh water     | Daphnia - Daphnia magna                            | 48 hours |
|                             | Acute LC50 4130 µg/l Fresh water     | Daphnia - Daphnia pulex                            | 48 hours |
|                             | Acute LC50 300 µg/l Fresh water      | Fish - Hypophthalmichthys nobilis                  | 96 hours |
|                             | Acute LC50 450 μg/l Fresh water      | Fish - Oncorhynchus tshawytscha - Underyearling    | 96 hours |
|                             | Acute LC50 380 μg/l Fresh water      | Fish - Hypophthalmichthys<br>molitrix - Fingerling | 96 hours |
|                             | Acute LC50 660 μg/l Fresh water      | Fish - Cyprinus carpio                             | 96 hours |
|                             | Acute LC50 440 µg/l Fresh water      | Fish - Cyprinus carpio                             | 96 hours |
|                             | Chronic NOEC 550 µg/l Fresh water    | Fish - Rutilus rutilus - Embryo                    | 31 days  |
|                             | Chronic NOEC 0.204 mg/l Marine water | Fish - Dicentrarchus labrax                        | 62 days  |
| 1,4-dioxane                 | Acute LC50 1.5 mg/l Fresh water      | Daphnia - Daphnia magna -<br>Neonate               | 48 hours |
|                             | Acute LC50 10800000 µg/l Fresh water | Fish - Pimephales promelas                         | 96 hours |
|                             | Acute LC50 9850000 µg/l Fresh water  | Fish - Pimephales promelas                         | 96 hours |
|                             | Acute LC50 12326000 µg/l Fresh water | Fish - Pimephales promelas                         | 96 hours |
|                             | Acute LC50 9872000 µg/l Fresh water  | Fish - Pimephales promelas                         | 96 hours |
|                             | Acute LC50 6700000 µg/l Marine water | Fish - Menidia beryllina                           | 96 hours |
|                             | Chronic NOEC 145 mg/l Fresh water    | Fish - Pimephales promelas                         | 32 days  |
|                             | Chronic NOEC 145 mg/l Fresh water    | Fish - Pimephales promelas                         | 32 days  |
|                             | Chronic NOEC 145 mg/l Fresh water    | Fish - Pimephales promelas                         | 32 days  |
| ethylene oxide              | Acute LC50 1000000 µg/l Marine water | Crustaceans - Artemia sp.                          | 48 hours |
| _                           | Acute LC50 490000 µg/l Marine water  | Crustaceans - Artemia sp.                          | 48 hours |
|                             | Acute LC50 300000 µg/l Fresh water   | Daphnia - Daphnia magna                            | 48 hours |
|                             | Acute LC50 137000 µg/l Fresh water   | Daphnia - Daphnia magna                            | 48 hours |
|                             | Acute LC50 200000 µg/l Fresh water   | Daphnia - Daphnia magna                            | 48 hours |
|                             | Acute LC50 84000 µg/l Fresh water    | Fish - Pimephales promelas                         | 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-butoxyethanol             | 0.81               | -          | low       |
| trizinc bis(orthophosphate) | -                  | 60960      | high      |
| 1,4-dioxane                 | -0.42              | 0.3 to 0.7 | low       |
| ethylene oxide              | -0.3               | -          | low       |

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## **SECTION 12: Ecological information**

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: 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.

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  |  |  |
|----------------------|--|--|--|
| <b>E</b> WC 08 01 12 | waste paint and varnish other than those mentioned in 08 01 11 |  |  |

#### **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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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## **SECTION 14: Transport information**

|                                  | ADR/RID        | IMDG           | IATA           |
|----------------------------------|----------------|----------------|----------------|
| 14.1 UN number                   | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name     | -              | -              | -              |
| 14.3 Transport hazard class(es)  | -              | -              | -              |
| 14.4 Packing<br>group            | -              | -              | -              |
| 14.5<br>Environmental<br>hazards | No.            | No.            | No.            |

user

14.6 Special precautions for : 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 : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**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 : Not listed

prevention and control) -

Air

**Industrial emissions** (integrated pollution : Not listed

prevention and control) -

Water

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## **SECTION 15: Regulatory information**

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

Not listed.

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

Not listed.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

Industrial use : 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.

NACE : Not available.
UC62 : Not available.

**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.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/20081

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

| Classification          | Justification      |
|-------------------------|--------------------|
| Aquatic Chronic 3, H412 | Calculation method |

#### Full text of abbreviated H statements

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## **SECTION 16: Other information**

| SECTION 16. Other information |   |  |
|-------------------------------|---|--|
| H220                          | Extremely flammable gas.                                      |  |
| H221                          | Flammable gas.  |  |
| H225                          | Highly flammable liquid and vapor.                            |  |
| H280                          | Contains gas under pressure; may explode if heated.           |  |
| H301                          | Toxic if swallowed.   |  |
| H302                          | Harmful if swallowed.   |  |
| H310                          | Fatal in contact with skin.                                   |  |
| H312                          | Harmful in contact with skin.                                 |  |
| H314                          | Causes severe skin burns and eye damage.                      |  |
| H315                          | Causes skin irritation.                                       |  |
| H317                          | May cause an allergic skin reaction.                          |  |
| H319                          | Causes serious eye irritation.                                |  |
| H330                          | Fatal if inhaled.   |  |
| H331                          | Toxic if inhaled.   |  |
| H332                          | Harmful if inhaled.   |  |
| H335                          | May cause respiratory irritation.                             |  |
| H336                          | May cause drowsiness or dizziness.                            |  |
| H340                          | May cause genetic defects.                                    |  |
| H350                          | May cause cancer.   |  |
| H360Fd                        | May damage fertility. Suspected of damaging the unborn child. |  |
| 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.            |  |
| EUH019                        | May form explosive peroxides.                                 |  |
| EUH066                        | Repeated exposure may cause skin dryness or cracking.         |  |
| EUH071                        | Corrosive to the respiratory tract.                           |  |

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

| Acute Tox. 2       | ACUTE TOXICITY - Category 2                        |
|--------------------|--|
| 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            |
| Carc. 1B           | CARCINOGENICITY - Category 1B                      |
| Eye Irrit. 2       | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2    |
| Flam. Gas 1A       | FLAMMABLE GASES - Category 1A                      |
| Flam. Gas 2        | FLAMMABLE GASES - Category 2                       |
| Flam. Liq. 2       | FLAMMABLE LIQUIDS - Category 2                     |
| Muta. 1B           | GERM CELL MUTAGENICITY - Category 1B               |
| Press. Gas (Comp.) | GASES UNDER PRESSURE - Compressed gas              |
| Repr. 1B           | TOXIC TO REPRODUCTION - Category 1B                |
| Skin Corr. 1       | SKIN CORROSION/IRRITATION - Category 1             |
| Skin Corr. 1B      | SKIN CORROSION/IRRITATION - Category 1B            |
| Skin Corr. 1C      | SKIN CORROSION/IRRITATION - Category 1C            |
| Skin Irrit. 2      | SKIN CORROSION/IRRITATION - Category 2             |
| Skin Sens. 1A      | SKIN SENSITIZATION - Category 1A                   |
| STOT RE 1          | SPECIFIC TARGET ORGAN TOXICITY (REPEATED           |
|                    | EXPOSURE) - Category 1                             |
| STOT SE 3          | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - |
|                    | Category 3   |
| <u></u>            | ı  |

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#### **SECTION 16: Other information**

#### **Notice to reader**

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it 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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