

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

# **SAFETY DATA SHEET**

F69 HARDENER

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

| 1.1 | Product | identifier |
|-----|---------|------------|
|-----|---------|------------|

| Product name | : F69 HARDENER |
|--------------|----------------|
| SDS code     | : 21069000D    |

## 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                            | : Two component 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

1.4 Emergency telephone number

responsible for this SDS

| National advisory body/F | Poison Center   |
|--------------------------|-----------------|
| Telephone number         | : +34 156 20420 |

| <u>Supplier</u>    |                        |
|--------------------|------------------------|
| 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]

Fam. Liq. 3, H226 Acute Tox. 4, H302 Skin Corr. 1C, H314 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 Aquatic Chronic 2, H411

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

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|--------------------------------|-------------|-------------|-----------|
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# **SECTION 2: Hazards identification**

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

| Hazard pictograms   |  |
|---|--|
| Signal word   | : Danger   |
| Hazard statements   | <ul> <li>Mammable liquid and vapor.<br/>Harmful if swallowed.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>Suspected of causing genetic defects.</li> <li>May damage fertility or the unborn child.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>   |
| Precautionary statements  |  |
| Prevention  | : Øbtain special instructions before use. Wear protective gloves, protective clothing<br>and eye or face protection. Keep away from heat, hot surfaces, sparks, open<br>flames and other ignition sources. No smoking. Avoid release to the environment.<br>Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash<br>hands thoroughly after handling.  |
| Response  | : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF<br>INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED:<br>Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce<br>vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing.<br>Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash<br>contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin<br>irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse<br>cautiously with water for several minutes. Remove contact lenses, if present and<br>easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. |
| Storage   | : Store in a well-ventilated place. Keep cool.   |
| Disposal  | : Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
| Hazardous ingredients   | <ul> <li>Feaction product: bisphenol-A-(epichlorhydrin); epoxy resin<br/>nitroethane</li> <li>1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane</li> <li>[3-(2,3-epoxypropoxy)propyl]trimethoxysilane</li> </ul>   |
| Supplemental label<br>elements  | : Contains epoxy constituents. May produce an allergic reaction.   |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | : Restricted to professional users.  |
| Special packaging requirem  | nents  |
| Containers to be fitted<br>with child-resistant<br>fastenings   | : Not applicable.  |
| Tactile warning of danger   | : Not applicable.  |

# 2.3 Other hazards

| Date of issue/Date of revision | : 4-10-2022 | Version : 2 |           |
|--------------------------------|-------------|-------------|-----------|
| Date of previous issue         | : 30-9-2022 | 2/17        | AkzoNobel |

# **SECTION 2: Hazards identification**

 Product meets the criteria
 : This mixture does not contain any substances that are assessed to be a PBT or a vPvB according to Regulation (EC) No.

 1907/2006, Annex XIII
 : None known.

# not result in classification

The mixture may be a skin sensitizer. It may also be a skin irritant and repeated contact may increase this effect.

# **SECTION 3: Composition/information on ingredients**

| 3.2 Mixtures : Mixture  |   |           |   |         |
|---|---|-----------|---|---------|
| Product/ingredient name   | Identifiers   | %         | Regulation (EC) No.<br>1272/2008 [CLP]  | Туре    |
| reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin<br>(number average molecular weight<br>≤ 700) | REACH #:<br>01-2119456619-26<br>EC: 500-033-5<br>CAS: 25068-38-6<br>Index: 603-074-00-8 | ≥25 - ≤50 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2,<br>H411                             | [1]     |
| nitroethane   | REACH #:<br>01-2119966158-27<br>EC: 201-188-9<br>CAS: 79-24-3<br>Index: 609-035-00-1    | ≥25 - ≤50 | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Acute Tox. 4, H332  | [1] [2] |
| 1,3-Propanediol, 2-ethyl-2-<br>(hydroxymethyl)-, polymer with 2-<br>(chloromethyl)oxirane                     | REACH #:<br>01-2120078341-60<br>CAS: 30499-70-8   | ≥10 - ≤25 | Skin Corr. 1C, H314<br>Skin Sens. 1B, H317<br>Muta. 2, H341 (oral)<br>Repr. 1B, H360 (oral)<br>Aquatic Chronic 2,<br>H411 | [1]     |
| [3-(2,3-epoxypropoxy)propyl]<br>trimethoxysilane  | REACH #:<br>01-2119513212-58<br>EC: 219-784-2<br>CAS: 2530-83-8                         | ≤5        | Eye Dam. 1, H318  | [1]     |
|   |   |           | See Section 16 for<br>the full text of the H<br>statements declared<br>above.   |         |

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.

# <u>Type</u>

[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 o | contact |
|-------|---------|
|-------|---------|

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 F69 HARDENER

| SECTION 4: First aid measures |  |  |  |
|-------------------------------|--|--|--|
| Inhalation                    | : Get medical attention immediately. Call a poison center or physician. 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. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.      |  |  |
| Skin contact                  | : Get medical attention immediately. Call a poison center or physician. Wash with<br>plenty of soap and water. Remove contaminated clothing and shoes. Wash<br>contaminated clothing thoroughly with water before removing it, or wear gloves.<br>Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly<br>by a physician. In the event of any complaints or symptoms, avoid further exposure.<br>Wash clothing before reuse. Clean shoes thoroughly before reuse.  |  |  |
| Ingestion                     | : Get medical attention immediately. Call a poison center or physician. Wash out<br>mouth with water. Remove dentures if any. Remove victim to fresh air and keep at<br>rest in a position comfortable for breathing. If material has been swallowed and the<br>exposed person is conscious, give small quantities of water to drink. Stop if the<br>exposed person feels sick as vomiting may be dangerous. Do not induce vomiting<br>unless directed to do so by medical personnel. If vomiting occurs, the head should<br>be kept low so that vomit does not enter the lungs. Chemical burns must be treated<br>promptly by a physician. Never give anything by mouth to an unconscious person.<br>If unconscious, place in recovery position and get medical attention immediately.<br>Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or<br>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. 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.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane. May produce an allergic reaction.

# Over-exposure signs/symptoms

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|--------------------------------|-------------|-------------|-----------|
| Date of previous issue         | : 30-9-2022 | 4/17        | AkzoNobel |

# **SECTION 4: First aid measures**

| SECTION 4: First aid                         |   |
|--|---|
| Eye contact                                  | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness  |
| Inhalation                                   | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations   |
| Skin contact                                 | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations  |
| Ingestion                                    | : Adverse symptoms may include the following:<br>stomach pains<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations  |
| 4.3 Indication of any immedi                 | ate medical attention and special treatment needed  |
| Notes to physician                           | : In case of inhalation of decomposition products in a fire, symptoms may be delayed.<br>The exposed person may need to be kept under medical surveillance for 48 hours.  |
| Specific treatments                          | : No specific treatment.  |
| SECTION 5: Firefigh                          | ting 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 f                | rom the substance or mixture  |
| Hazards from the substance or mixture        | : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.<br>In a fire or if heated, a pressure increase will occur and the container may burst, with<br>the risk of a subsequent explosion. This material is toxic to aquatic life with long<br>lasting effects. Fire water contaminated with this material must be contained and<br>prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion<br>products             | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>halogenated compounds<br>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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.  |
|  |   |



| SECTION 5: Firefighting measures                  |  |  |  |  |
|---|--|--|--|--|
| Special protective<br>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, prot                    | ective equipment and emergency procedures  |  |  |  |
| For non-emergency<br>personnel                    | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate.<br>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. Collect spillage.

### 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.<br>See Section 8 for information on appropriate personal protective equipment.<br>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 | : Fut 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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 |
|---------------------|---|
|---------------------|---|

| Date of issue/Date of revision | : 4-10-2022 | Version : 2 |
|--------------------------------|-------------|-------------|
| Date of previous issue         | : 30-9-2022 | 6/17        |



# SECTION 7: Handling and storage

(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

|     | Notification and MAPP threshold | Safety report threshold |
|-----|---------------------------------|-------------------------|
| P5c | 5000 tonne                      | 50000 tonne             |
| E2  | 200 tonne                       | 500 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  |                        |
|--------------------------------------|---|--|------------------------|
| nitroethane                          |   | National institute of occupational safe<br>2/2019). Absorbed through skin.<br>TWA: 62 mg/m <sup>3</sup> 8 hours.<br>TWA: 20 ppm 8 hours.<br>STEL: 312 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.   | ≱ty and health (Spain, |
| Recommended monitoring<br>procedures | atmosphere or k<br>of the ventilation<br>protective equip<br>the following: E<br>the assessment<br>limit values and<br>atmospheres - C<br>of exposure to c<br>(Workplace atm<br>for the measure | contains ingredients with exposure limits, personal, workplace<br>r biological monitoring may be required to determine the effectivener<br>on or other control measures and/or the necessity to use respiratory<br>ipment. Reference should be made to monitoring standards, such<br>European Standard EN 689 (Workplace atmospheres - Guidance f<br>nt of exposure by inhalation to chemical agents for comparison with<br>ad measurement strategy) European Standard EN 14042 (Workplac<br>- Guide for the application and use of procedures for the assessment<br>o chemical and biological agents) European Standard EN 482<br>mospheres - General requirements for the performance of procedure<br>rement of chemical agents) Reference to national guidance<br>r methods for the determination of hazardous substances will also b |                        |
| Date of issue/Date of revision       | : 4-10-2022   | Version : 2  |                        |
| Date of previous issue               | : 30-9-2022   | 7/17   | AkzoNobel              |

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

# **DNELs/DMELs**

| Product/ingredient name   | Туре | Exposure                 | Value                  | Population                           | Effects  |
|---|------|--------------------------|------------------------|--------------------------------------|----------|
| reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin<br>(number average molecular weight<br>≤ 700) | DNEL | Short term<br>Inhalation | 0.75 mg/<br>kg bw/day  | General<br>population<br>[Consumers] | Systemic |
|   | DNEL | Long term<br>Inhalation  | 0.75 mg/m³             | General<br>population<br>[Consumers] | Systemic |
|   | DNEL | Short term Oral          | 0.75 mg/<br>kg bw/day  | General<br>population                | Systemic |
|   | DNEL | Long term Oral           | 0.75 mg/<br>kg bw/day  | General<br>population                | Systemic |
|   | DNEL | Short term Dermal        | 3.571 mg/<br>kg bw/day | General<br>population                | Systemic |
|   | DNEL | Long term Dermal         | 3.571 mg/<br>kg bw/day | General<br>population                | Systemic |
|   | DNEL | Short term Dermal        | 8.33 mg/<br>kg bw/day  | Workers                              | Systemic |
|   | DNEL | Long term Dermal         | 8.33 mg/<br>kg bw/day  | Workers                              | Systemic |
|   | DNEL | Short term<br>Inhalation | 12.25 mg/              | Workers                              | Systemic |
|   | DNEL | Long term<br>Inhalation  | 12.25 mg/<br>m³        | Workers                              | Systemic |
| nitroethane   | DNEL | Long term<br>Inhalation  | 2 mg/m³                | General<br>population                | Systemic |
|   | DNEL | Long term<br>Inhalation  | 5 mg/m³                | General<br>population                | Local    |
|   | DNEL | Short term<br>Inhalation | 5 mg/m³                | General<br>population                | Systemic |
|   | DNEL | Long term<br>Inhalation  | 8.4 mg/m <sup>3</sup>  | Workers                              | Systemic |
|   | DNEL | Short term<br>Inhalation | 15 mg/m³               | General<br>population                | Local    |
|   | DNEL | Short term<br>Inhalation | 17 mg/m³               | Workers                              | Systemic |
|   | DNEL | Long term<br>Inhalation  | 25 mg/m³               | Workers                              | Local    |
|   | DNEL | Short term<br>Inhalation | 50 mg/m³               | Workers                              | Local    |
|   | DNEL | Long term Dermal         | 210 mg/kg<br>bw/day    | General<br>population                | Systemic |
|   | DNEL | Long term Dermal         | 350 mg/kg<br>bw/day    | Workers                              | Systemic |
|   | DNEL | Short term Dermal        | 1250 mg/<br>kg bw/day  | General population                   | Systemic |
|   | DNEL | Short term Dermal        | 2100 mg/<br>kg bw/day  | Workers                              | Systemic |
| 3-(2,3-epoxypropoxy)propyl]<br>rimethoxysilane  | DNEL | Long term Oral           | 12.5 mg/<br>kg bw/day  | General<br>population                | Systemic |
|   | DNEL | Long term Dermal         | 12.5 mg/<br>kg bw/day  | General<br>population                | Systemic |
|   | DNEL | Long term Dermal         | 21 mg/kg<br>bw/day     | Workers                              | Systemic |
|   | DNEL | Long term<br>Inhalation  | 147 mg/m <sup>3</sup>  | Workers                              | Systemic |

### PNECs



| SECTION 8: Exposu  | re controls/   | personal protection  | on   |   |
|--|--|--|--|---|
| Product/ingredient name  |  | Compartment Detail   | Value  | Method Detail   |
| reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin (number<br>average molecular weight ≤ 700) |  | Fresh water<br>Marine water<br>Sewage Treatment<br>Plant   | 3 μg/l<br>0.3 μg/l<br>10 mg/l  | -   |
|  |  | Fresh water sediment<br>Marine water sediment<br>Sediment  | 0.5 mg/kg dwt<br>0.5 mg/kg dwt<br>0.05 mg/kg dwt   | -   |
| 8.2 Exposure controls  |  |  |  |   |
| Appropriate engineering controls   | ventilation or<br>contaminants<br>controls also                                  | n adequate ventilation. Us<br>other engineering control<br>s below any recommended<br>need to keep gas, vapor<br>nits. Use explosion-proof v   | s to keep worker ex<br>d or statutory limits.<br>or dust concentratio  | posure to airborne<br>The engineering<br>ns below any lower   |
| Individual protection meas   | sures  |  |  |   |
| Hygiene measures   | before eating<br>Appropriate t<br>Contaminate<br>contaminate                     | Wash hands, forearms and face thoroughly after handling chemical products,<br>before eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing<br>Contaminated work clothing should not be allowed out of the workplace. Wash<br>contaminated clothing before reusing. Ensure that eyewash stations and safety<br>showers are close to the workstation location. |  |   |
| Eye/face protection  | assessment<br>gases or dus<br>unless the as<br>goggles and/                      | 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may b required instead.                                 |  |   |
| Skin protection  |  |  |  |   |
| Hand protection  | be worn at a<br>this is neces<br>check during<br>should be no<br>different for o | sistant, impervious gloves<br>Il times when handling che<br>sary. Considering the para<br>use that the gloves are st<br>oted that the time to breakt<br>different glove manufacture<br>tances, the protection time   | emical products if a<br>ameters specified b<br>ill retaining their pro<br>hrough for any glov<br>ers. In the case of p | risk assessment indicates<br>y the glove manufacturer,<br>otective properties. It<br>e material may be<br>mixtures, consisting of |
|  | protection cla<br>recommende<br>When only b<br>(breakthroug<br>Recommend         | aged or frequently repeated<br>ass of 6 (breakthrough tim<br>ed. Recommended gloves<br>rief contact is expected, a<br>th time >30 minutes accord<br>led gloves: Nitrile, thicknes<br>Id be replaced regularly ar   | e >480 minutes acc<br>s: Viton ® or Nitrile,<br>glove with protection<br>ding to EN374) is re<br>ss ≥ 0.12 mm.         | cording to EN374) is<br>thickness ≥ 0.38 mm.<br>on class of 2 or higher<br>ecommended.  |
|  | chemical dar   | ance or effectiveness of th<br>mage and poor maintenan   | ce.  |   |
|  | product is the   | st check that the final cho<br>e most appropriate and tal<br>ded in the user's risk asse   | kes into account the   |   |



# SECTION 8: Exposure controls/personal protection

| Body protection                 | : Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity,<br>wear anti-static protective clothing. For the greatest protection from static<br>discharges, clothing should include anti-static overalls, boots and gloves. Refer to<br>European Standard EN 1149 for further information on material and design<br>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<br>ensure they comply with the requirements of environmental protection legislation.<br>In some cases, fume scrubbers, filters or engineering modifications to the process<br>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

| <u>Appearance</u>                               |   |  |
|---|---|--|
| Physical state                                  | iquid.  |  |
| Color   | Colorless.  |  |
| Odor  | Characteristic.   |  |
| Odor threshold                                  | lot available.  |  |
| рН  | lot available.  |  |
| Melting point/freezing point                    | lot available.  |  |
| Initial boiling point and                       | lot available.  |  |
| boiling range                                   |   |  |
| Flash point                                     | Closed cup: 47°C  |  |
| Evaporation rate                                | lot available.  |  |
| Flammability (solid, gas)                       | lot available.  |  |
| Upper/lower flammability or<br>explosive limits | lot available.  |  |
| Vapor pressure                                  | lot available.  |  |
| Vapor density                                   | lighest known value: 2.6 (Air = 1) (1,3-Propanediol, 2-ethyl-2-(hydroxy olymer with 2-(chloromethyl)oxirane). Weighted average: 2.17 (Air = 1 |  |
| Density   | .117 g/cm <sup>3</sup>  |  |
| Solubility(ies)                                 | nsoluble in the following materials: cold water.  |  |
| Partition coefficient: n-octanol/<br>water      | lot available.  |  |
| Auto-ignition temperature                       | lot available.  |  |
| Decomposition temperature                       | lot available.  |  |
| Viscosity                                       | (inematic (room temperature): 0.09 cm²/s<br>(inematic (40°C): 0.2 cm²/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<br>hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.   |  |
| 10.4 Conditions to avoid                   | : 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. |  |
| 10.5 Incompatible materials                | : Reactive or incompatible with the following materials:<br>oxidizing materials   |  |
| 10.6 Hazardous<br>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

| Product/ingredient name                          | Result               | Species | Dose        | Exposure |
|--|----------------------|---------|-------------|----------|
| nitroethane                                      | LD50 Intraperitoneal | Mouse   | 310 mg/kg   | -        |
|  | LD50 Oral            | Mouse   | 860 mg/kg   | -        |
|  | LD50 Oral            | Rat     | 1100 mg/kg  | -        |
| [3-(2,3-epoxypropoxy)propyl]<br>trimethoxysilane | LD50 Dermal          | Rabbit  | 3970 uL/kg  | -        |
|  | LD50 Oral            | Rat     | 7.01 g/kg   | -        |
|  | LD50 Oral            | Rat     | 22600 uĽ/kg | -        |

**Conclusion/Summary** : Not available.

## Irritation/Corrosion

| reaction product: bisphenol-<br>A-(epichlorhydrin); epoxy<br>resin (number average | Eyes - Mild irritant     | Rabbit | -       | 100 mg             | -        |
|--|--------------------------|--------|---------|--------------------|----------|
| molecular weight ≤ 700)  |                          |        |         |                    |          |
|  | Skin - Moderate irritant | Rabbit | -       | 24 hours 500<br>Ul | -        |
|  | Skin - Severe irritant   | Rabbit | -       | 24 hours 2<br>mg   | -        |
| [3-(2,3-epoxypropoxy)propyl]<br>trimethoxysilane                                   | Eyes - Mild irritant     | Rabbit | -       | 100 mg             | -        |
|  | Skin - Mild irritant     | Rabbit | -       | 500 mg             | -        |
| Conclusion/Summary   | : Not available.         |        | •       |                    |          |
| <u>Sensitization</u>   |                          |        |         |                    |          |
| Conclusion/Summary   | : Not available.         |        |         |                    |          |
| <u>Mutagenicity</u>  |                          |        |         |                    |          |
| Conclusion/Summary   | : Not available.         |        |         |                    |          |
| <u>Carcinogenicity</u>   |                          |        |         |                    |          |
| Conclusion/Summary   | : Not available.         |        |         |                    |          |
| Reproductive toxicity  |                          |        |         |                    |          |
| Conclusion/Summary   | : Not available.         |        |         |                    |          |
| <u>Teratogenicity</u>  |                          |        |         |                    |          |
| ate of issue/Date of revision  | : 4-10-2022              | Vers   | sion :2 |                    |          |
| ate of previous issue  | : 30-9-2022              | 11/1   | 7       |                    | AkzoNobe |

|                                | 1001/1/1021/121/  |           |
|--------------------------------|---|-----------|
| <b>SECTION 11: Toxic</b>       | logical information   |           |
| Conclusion/Summary             | : Not available.  |           |
| Specific target organ toxic    |   |           |
| Not available.                 | <b>, , , , , , , , , , , , , , , , , , , </b>                                     |           |
| Specific target organ toxic    | v (reneated exposure)   |           |
| Not available.                 |   |           |
|                                |   |           |
| Aspiration hazard              |   |           |
| Not available.                 |   |           |
| Information on the likely      | : Not available.  |           |
| routes of exposure             |   |           |
| Potential acute health effect  |   |           |
| Eye contact                    | - Causes serious eye damage.  |           |
| Inhalation                     | : No known significant effects or critical hazards.                               |           |
| Skin contact                   | : Zauses severe burns. May cause an allergic skin reaction.                       |           |
| Ingestion                      | : Harmful if swallowed.   |           |
| -                              |   |           |
| Symptoms related to the pl     | sical, chemical and toxicological characteristics                                 |           |
| Eye contact                    | : Adverse symptoms may include the following:                                     |           |
|                                | pain<br>watering  |           |
|                                | redness   |           |
| Inhalation                     | : Koverse symptoms may include the following:                                     |           |
|                                | reduced fetal weight  |           |
|                                | increase in fetal deaths<br>skeletal malformations                                |           |
| Skin contact                   | : Adverse symptoms may include the following:                                     |           |
|                                | pain or irritation  |           |
|                                | redness   |           |
|                                | blistering may occur<br>reduced fetal weight                                      |           |
|                                | increase in fetal deaths  |           |
|                                | skeletal malformations  |           |
| Ingestion                      | <ul> <li>Adverse symptoms may include the following:<br/>stomach pains</li> </ul> |           |
|                                | reduced fetal weight  |           |
|                                | increase in fetal deaths  |           |
|                                | skeletal malformations  |           |
| Delayed and immediate effe     | ts and also chronic effects from short and long term exposition                   | ure       |
| Short term exposure            |   |           |
| Potential immediate            | : Not available.  |           |
| effects                        |   |           |
| Potential delayed effects      | : Not available.  |           |
| Long term exposure             |   |           |
| Potential immediate<br>effects | : Not available.  |           |
| Potential delayed effects      | : Not available.  |           |
| Potential chronic health e     | ects  |           |
| Not available.                 |   |           |
| Conclusion/Summary             | : Not available.  |           |
| Date of issue/Date of revision | : 4-10-2022 Version : 2   |           |
| Date of previous issue         | : 30-9-2022 12/17   | AkzoNobel |
|                                |   |           |

| SECTION 11: Toxicological information |   |  |  |  |
|---------------------------------------|---|--|--|--|
| 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                          | : Suspected of causing genetic defects.   |  |  |  |
| Reproductive toxicity                 | : $\mathbf{M}$ ay damage fertility or the unborn child.   |  |  |  |
| 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.

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name                                   | LogPow       | BCF | Potential |
|---|--------------|-----|-----------|
| reaction product: bisphenol-<br>A-(epichlorhydrin); epoxy | 2.64 to 3.78 | 31  | low       |
| resin<br>nitroethane                                      | 0.18         | -   | low       |

| 12.4 Mobility in soil |                  |
|-----------------------|------------------|
| Soil/water partition  | : Not available. |
| coefficient (Koc)     |                  |
| 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.

: 30-9-2022

# **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

Date of previous issue

| Product                        |   |   |               |
|--------------------------------|---|---|---------------|
| Methods of disposal            | Disposal of this produc<br>with the requirements<br>and any regional local<br>recyclable products via | te should be avoided or minimized wherever possible.<br>ct, solutions and any by-products should at all times cor<br>of environmental protection and waste disposal legislat<br>authority requirements. Dispose of surplus and non-<br>a a licensed waste disposal contractor. Waste should r<br>to the sewer unless fully compliant with the requiremen<br>ediction. | ion<br>not be |
| Hazardous waste                | : The classification of th  | e product may meet the criteria for a hazardous waste.  |               |
| Date of issue/Date of revision | : 4-10-2022   | Version : 2   |               |

13/17

AkzoNobe

# **SECTION 13: Disposal considerations 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  |
|---|-------------------------|--|
|   | EWC 08 01 11*           | waste paint and varnish containing organic solvents or other hazardous substances  |
| E | 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 | <ul> <li>Using information provided in this safety data sheet, advice should be obtained from<br/>the relevant waste authority on the classification of empty containers.<br/>Empty containers must be scrapped or reconditioned.<br/>Dispose of containers contaminated by the product in accordance with local or<br/>national legal provisions.</li> </ul>  |
| S | 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**

Date of previous issue

| ADR/RID | IMDG   | ΙΑΤΑ   |
|---------|--|--|
|         |  |  |
| 13469   | <b>W</b> N3469   | ₩N3469   |
|         | AINT, FLAMMABLE,<br>CORROSIVE  | AINT, FLAMMABLE,<br>CORROSIVE  |
| 8)      | 3 (8)  | 3 (8)  |
|         |  |  |
|         | III  | III  |
|         | Marine Pollutant(s):<br>reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin,<br>1,3-Propanediol, 2-ethyl-2-<br>(hydroxymethyl)-, polymer with<br>2-(chloromethyl)oxirane | Yes. The environmentally<br>hazardous substance mark is<br>not required.   |
| 2       | RROSIVE  | RROSIVE       CORROSIVE         3)       (8)         (8)       (1)         (1)       (1)         (1)       (1)         (2)       (1)         (3)       (2)         (2)       (1)         (3)       (2)         (3)       (2)         (4)       (2)         (5)       (2)         (4)       (2)         (5)       (2)         (2) |

| ADR/RID                        | : The environmentally haz<br>sizes of ≤5 L or ≤5 kg.<br><u>Tunnel code</u> (D/E) | ardous substance mark is not requ               | uired when transported in    |
|--------------------------------|--|---|------------------------------|
| IMDG                           | : Emergency schedules  | F-E, S-C<br>rk is not required when transported | t in sizes of <5 L or <5 kg  |
| ΙΑΤΑ                           | :  | ik is not required when transported             | a in sizes of 20 L OF 20 Kg. |
| Date of issue/Date of revision | : 4-10-2022  | Version : 2                                     |                              |
| Date of previous issue         | : 30-9-2022  | 14/17   | AkzoNobel                    |

14/17

# **SECTION 14: Transport information**

| 14.6 Special precautions for user   | : <b>Transport within user's premises:</b> 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<br>according to IMO<br>instruments   | : Not applicable.   |
| SECTION 15: Regulat   | tory information  |
| EU Regulation (EC) No. 1907   | onmental regulations/legislation specific for the substance or mixture<br>7/2006 (REACH)<br>Inces subject to authorization  |
| Annex XIV   |   |
| None of the components ar   | e listed.   |
| Substances of very high o   | <u>concern</u>  |
| None of the components ar   | e listed.   |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market<br>and use of certain<br>dangerous substances,<br>mixtures and articles | : Restricted to professional users.   |
| 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<br>Mixture  | : Not applicable.   |
| Industrial emissions<br>(integrated pollution<br>prevention and control) -<br>Air   | : Not listed  |
| Industrial emissions<br>(integrated pollution<br>prevention and control) -<br>Water   | : Not listed  |
| Ozone depleting substance<br>Not listed.  | <u>es (1005/2009/EU)</u>  |
| Prior Informed Consent (PI<br>Not listed.   | <u>C) (649/2012/EU)</u>   |
| <u>Seveso Directive</u><br>This product is controlled une<br>Danger criteria  | der the Seveso Directive.   |

|    | ategory               |  |
|----|-----------------------|--|
|    | 5c<br>2               |  |
| Na | 2<br>onal regulations |  |
|    | Side regulations      |  |

| Industrial use                 | I he information contained in this safety data sheet does not constitute the user's<br>own assessment of workplace risks, as required by other health and safety<br>legislation. The provisions of the national health and safety at work regulations apply<br>to the use of this product at work. |             |           |
|--------------------------------|--|-------------|-----------|
| Date of issue/Date of revision | : 4-10-2022  | Version : 2 |           |
| Date of previous issue         | : 30-9-2022  | 15/17       | AkzoNobel |

| F69 HARDENER   |   |  |  |
|--|---|--|--|
| SECTION 15: Regulatory information                   |   |  |  |
| International regulations                            | 2   |  |  |
| <u>Chemical Weapon Conv</u>                          | Chemical Weapon Convention List Schedules I, II & III Chemicals |  |  |
| Not listed.  | Not listed.   |  |  |
| Montreal Protocol                                    | Montreal Protocol   |  |  |
| Not listed.  | Not listed.   |  |  |
| Stockholm Convention of                              | Stockholm Convention on Persistent Organic Pollutants           |  |  |
| Not listed.  | 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<br>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. |
| -                 | 1272/2008]  |
|                   | 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         |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226      | On basis of test data |
| Acute Tox. 4, H302      | Calculation method    |
| Skin Corr. 1C, H314     | Calculation method    |
| Skin Sens. 1, H317      | Calculation method    |
| Muta. 2, H341           | Calculation method    |
| Repr. 1B, H360          | Calculation method    |
| Aquatic Chronic 2, H411 | Calculation method    |

## Full text of abbreviated H statements

| <ul> <li>№226</li> <li>H302</li> <li>H314</li> <li>H315</li> <li>H317</li> <li>H318</li> <li>H319</li> <li>H332</li> <li>H341</li> <li>H360</li> <li>H411</li> </ul> |             | Flammable liquid and vapor.<br>Harmful if swallowed.<br>Causes severe skin burns and eye damage.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye damage.<br>Causes serious eye irritation.<br>Harmful if inhaled.<br>Suspected of causing genetic defects.<br>May damage fertility or the unborn child.<br>Toxic to aquatic life with long lasting effects. |           |
|--|-------------|--|-----------|
| Date of issue/Date of revision   | : 4-10-2022 | Version : 2  | AkzoNobel |
| Date of previous issue   | : 30-9-2022 | 16/17  | AKZUNUDEI |

# **SECTION 16: Other information**

# Full text of classifications [CLP/GHS]

| Cute Tox. 4<br>Aquatic Chronic 2<br>Eye Dam. 1<br>Eye Irrit. 2<br>Flam. Liq. 3<br>Muta. 2<br>Repr. 1B<br>Skin Corr. 1C<br>Skin Irrit. 2<br>Skin Sens. 1 | ACUTE TOXICITY - Category 4<br>AQUATIC HAZARD (LONG-TERM) - Category 2<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2<br>FLAMMABLE LIQUIDS - Category 3<br>GERM CELL MUTAGENICITY - Category 2<br>TOXIC TO REPRODUCTION - Category 1B<br>SKIN CORROSION/IRRITATION - Category 1C<br>SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITIZATION - Category 1 |
|---|--|
| Skin Sens. 1B   | SKIN SENSITIZATION - Category 1B   |
| Date of printing<br>Date of issue/ Date of<br>revision  | : 27 October 2022<br>: 4 October 2022  |
| Date of previous issue  | : 30 September 2022  |
| Version   | : 2  |

#### Version Unique ID

# Notice to reader

## FOR PROFESSIONAL USE ONLY

5

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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