

# SAFETY DATA SHEET



according to Workplace Safety and Health Regulations Singapore  
WEICON WR Epoxy Hardener

## Section 1. Identification

**Product identifier** : WEICON WR Epoxy Hardener  
**Product code** : 103002

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

Hardener for resins.

**Supplier's details** : WEICON GmbH & Co. KG  
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48157 Münster  
Germany  
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Fax: +49(0)251 / 9322 - 244  
Internet: www.weicon.de

**e-mail address of person responsible for this SDS** : msds@weicon.de

**Emergency telephone number** : EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)  
TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

## Section 2. Hazards identification

**Classification of the substance or mixture** : ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN CORROSION/IRRITATION - Category 1  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
SKIN SENSITIZATION - Category 1

### GHS label elements, including precautionary statements

**Hazard pictograms** :

**Signal word** : Danger

**Hazard statements** : H302 + H332 - Harmful if swallowed or if inhaled.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.

### Precautionary statements

**Prevention** : P280 - Wear protective gloves, protective clothing and eye or face protection.  
P271 - Use only outdoors or in a well-ventilated area.  
P261 - Avoid breathing vapor.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash thoroughly after handling.

**Response** : P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.  
P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.  
P363 - Wash contaminated clothing before reuse.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.  
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

## Section 2. Hazards identification

P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Storage** : P405 - Store locked up.

**Disposal** : P501 - Dispose of waste according to applicable legislation.

**Other hazards which do not result in classification** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| Ingredient name  | %         | CAS number  |
|--|-----------|-------------|
| benzyl alcohol   | ≥25 - ≤50 | 100-51-6    |
| 5-amino-1,3,3-trimethyl-cyclohexanemethanamine   | ≥25 - ≤50 | 2855-13-2   |
| 3,3,5-trimethylhexylenediamine   | ≥10 - ≤25 | 25513-64-8  |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine | ≥10 - ≤20 | 161278-24-6 |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol   | ≤4.8      | 9003-36-5   |
| m-phenylenebis(methylamine)  | ≤5        | 1477-55-0   |

**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 and hence require reporting in this section.**

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

**Chemical formula** : Not applicable.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye 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.
- 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 plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First aid measures

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.  
**Inhalation** : Harmful if inhaled.  
**Skin contact** : Causes severe burns. May cause an allergic skin reaction.  
**Ingestion** : Harmful if swallowed.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
 pain  
 watering  
 redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur

**Ingestion** : Adverse symptoms may include the following:  
 stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : 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.

**Specific treatments** : No specific treatment.

**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.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

## Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds
- 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.

## Section 6. Accidental release measures

### 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. Do not breathe 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".
- 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).

### 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.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
- 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. Store locked up. 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.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name             | Exposure limits  |
|-----------------------------|--|
| m-phenylenebis(methylamine) | <b>Workplace Safety and Health Act (Singapore, 2/2006).</b><br>PEL (short term): 0.1 mg/m <sup>3</sup> 15 minutes. |

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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. Recommended : 1 - 4 hours (breakthrough time): nitrile rubber ; 4 - 8 hours (breakthrough time): Viton®/butyl rubber
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- 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. Recommended : organic vapor (Type AX) and particulate filter

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : Yellowish.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : 7 to 9

## Section 9. Physical and chemical properties

|  |                                   |
|--|-----------------------------------|
| <b>Melting point/freezing point</b>                            | : Not available.                  |
| <b>Boiling point, initial boiling point, and boiling range</b> | : Not available.                  |
| <b>Flash point</b>   | : Closed cup: >100°C (>212°F)     |
| <b>Fire point</b>  | : >380°C (>716°F)                 |
| <b>Evaporation rate</b>  | : Not available.                  |
| <b>Flammability</b>  | : Not available.                  |
| <b>Lower and upper explosion limit/flammability limit</b>      | : Lower: 1.3%<br>Upper: 13%       |
| <b>Vapor pressure</b>  | : 0.01 kPa (0.075006 mm Hg)       |
| <b>Relative vapor density</b>                                  | : Not available.                  |
| <b>Relative density</b>  | : Not available.                  |
| <b>Density</b>   | : 1 g/cm <sup>3</sup>             |
| <b>Solubility(ies)</b>   | :<br>Not available.               |
| <b>Solubility in water</b>                                     | : Not available.                  |
| <b>Miscible with water</b>                                     | : No.                             |
| <b>Partition coefficient: n-octanol/water</b>                  | : Not applicable.                 |
| <b>Auto-ignition temperature</b>                               | : Not applicable.                 |
| <b>Decomposition temperature</b>                               | : Not available.                  |
| <b>Viscosity</b>   | : Dynamic: 15000 mPa·s (15000 cP) |
| <b>Flow time (ISO 2431)</b>                                    | : Not available.                  |
| <b><u>Particle characteristics</u></b>                         |                                   |
| <b>Median particle size</b>                                    | : Not applicable.                 |

## Section 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| <b>Chemical stability</b>                 | : The product is stable.   |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>Conditions to avoid</b>                | : No specific data.  |
| <b>Incompatible materials</b>             | : No specific data.  |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| <b>SADT</b>                               | : Not available.   |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

## Section 11. Toxicological information

| Product/ingredient name | Result      | Species | Dose       | Exposure |
|-------------------------|-------------|---------|------------|----------|
| benzyl alcohol          | LD50 Dermal | Rabbit  | 2000 mg/kg | -        |
|                         | LD50 Oral   | Mouse   | 1360 mg/kg | -        |
|                         | LD50 Oral   | Mouse   | 1360 mg/kg | -        |
|                         | LD50 Oral   | Rabbit  | 1040 mg/kg | -        |
|                         | LD50 Oral   | Rabbit  | 1040 mg/kg | -        |
|                         | LD50 Oral   | Rat     | 1.5 mL/kg  | -        |
|                         | LD50 Oral   | Rat     | 1230 mg/kg | -        |
|                         | LD50 Oral   | Rat     | 1660 mg/kg | -        |

### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure        | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| benzyl alcohol          | Skin - Mild irritant     | Man     | -     | 48 hours 16 mg  | -           |
|                         | Skin - Moderate irritant | Pig     | -     | 100 %           | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 100 mg | -           |

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

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

### Potential acute health effects

**Eye contact** : Causes serious eye damage.  
**Inhalation** : Harmful if inhaled.  
**Skin contact** : Causes severe burns. May cause an allergic skin reaction.  
**Ingestion** : Harmful if swallowed.

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

## Section 11. Toxicological information

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

#### Short term exposure

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

#### Long term exposure

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

#### Potential chronic health effects

Not available.

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name     | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-----------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| WEICON WR Epoxy Hardener    | 670.3        | N/A            | N/A                      | N/A                        | 2.0                                 |
| benzyl alcohol              | 500          | N/A            | N/A                      | N/A                        | 1.5                                 |
| m-phenylenebis(methylamine) | 500          | N/A            | N/A                      | N/A                        | 1.5                                 |

#### Acute toxicity estimates

| Route                        | ATE value    |
|------------------------------|--------------|
| Oral                         | 670.33 mg/kg |
| Inhalation (dusts and mists) | 2.01 mg/l    |



## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                             | Species  | Exposure |
|-------------------------|------------------------------------|--|----------|
| benzyl alcohol          | Acute LC50 10000 µg/l Fresh water  | Fish - Lepomis macrochirus   | 96 hours |
|                         | Acute LC50 15000 µg/l Marine water | Fish - Menidia beryllina   | 96 hours |
|                         | Acute LC50 460000 µg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |

### Persistence/degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name  | LogP <sub>ow</sub> | BCF  | Potential |
|--|--------------------|------|-----------|
| benzyl alcohol   | 0.87               | -    | low       |
| 5-amino-1,3,3-trimethyl-cyclohexanemethanamine                                       | 0.99               | -    | low       |
| 3,3,5-trimethylhexylenediamine   | -0.3               | -    | low       |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 2.7                | -    | low       |
| m-phenylenebis (methylamine)   | 0.18               | 2.69 | low       |

### Mobility in soil

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

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





## Section 13. Disposal considerations

**Disposal methods** : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

## Section 14. Transport information

|                                | UN   | IMDG   | IATA   | ADR/RID  |
|--------------------------------|--|--|--|--|
| <b>UN number</b>               | UN2735   | UN2735   | UN2735   | UN2735   |
| <b>UN proper shipping name</b> | AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine) | AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine) | Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine) | AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine) |

## Section 14. Transport information

|                            |  |  |   |  |
|----------------------------|--|--|---|--|
| Transport hazard class(es) | 8<br> | 8<br> | 8<br> | 8<br> |
| Packing group              | III  | III  | III   | III  |
| Environmental hazards      | No.  | No.  | No.   | No.  |

### Additional information

|         |  |
|---------|--|
| UN      | : <b>Special provisions</b> 223, 274   |
| IMDG    | : <b>Emergency schedules</b> F-A, S-B<br><b>Special provisions</b> 223, 274  |
| IATA    | : <b>Quantity limitation</b> Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y841.<br><b>Special provisions</b> A3, A803 |
| ADR/RID | : <b>Hazard identification number</b> 80<br><b>Limited quantity</b> 5 L<br><b>Special provisions</b> 274<br><b>Tunnel code</b> (E)<br><b>ADR Classification Code:</b> C7   |

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

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### Singapore - hazardous chemicals under government control

None.

### 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

|                         |   |
|-------------------------|---|
| Australia               | : Not determined.   |
| Canada                  | : Not determined.   |
| China                   | : Not determined.   |
| Eurasian Economic Union | : <b>Russian Federation inventory:</b> All components are listed or exempted. |

## Section 15. Regulatory information

|                   |  |
|-------------------|--|
| Japan             | : Japan inventory (CSCL): Not determined.<br>Japan inventory (ISHL): Not determined. |
| New Zealand       | : Not determined.  |
| Philippines       | : Not determined.  |
| Republic of Korea | : Not determined.  |
| Taiwan            | : Not determined.  |
| Thailand          | : Not determined.  |
| Turkey            | : Not determined.  |
| United States     | : Not determined.  |
| Viet Nam          | : Not determined.  |

## Section 16. Other information

### History

|                                |              |
|--------------------------------|--------------|
| Date of printing               | : 5/14/2023  |
| Date of issue/Date of revision | : 5/11/2023  |
| Date of previous issue         | : 10/20/2022 |
| Version                        | : 2.03       |

|                           |   |
|---------------------------|---|
| Key to abbreviations      | : ATE = Acute Toxicity Estimate   |
|                           | : BCF = Bioconcentration Factor   |
|                           | : GHS = Globally Harmonized System of Classification and Labelling of Chemicals   |
|                           | : IATA = International Air Transport Association  |
|                           | : IBC = Intermediate Bulk Container   |
|                           | : IMDG = International Maritime Dangerous Goods   |
|                           | : LogPow = logarithm of the octanol/water partition coefficient   |
|                           | : MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) |
|                           | : N/A = Not available   |
| : SGG = Segregation Group |   |
| : UN = United Nations     |   |

### Procedure used to derive the classification

| Classification                                  | Justification      |
|---|--------------------|
| ACUTE TOXICITY (oral) - Category 4              | Calculation method |
| ACUTE TOXICITY (inhalation) - Category 4        | Calculation method |
| SKIN CORROSION/IRRITATION - Category 1          | Calculation method |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 | Calculation method |
| SKIN SENSITIZATION - Category 1                 | Calculation method |

References : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.