

# SAFETY DATA SHEET

## Rust Converter

### Section 1. Identification

**Product identifier** : Rust Converter  
**Product code** : 151520  
**Color** : Dark-Brown. Black.  
**Other means of identification** : Not available.  
**Product type** : Liquid.

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

##### Identified uses

Lubricating agent-Release products

##### Uses advised against

Not applicable.

**Supplier's details** : WEICON GmbH & Co. KG  
Königsberger Str. 255,  
48157 Münster, Germany  
phone:+49 251 93220,  
email: info@weicon.de,  
URL: www.weicon.de

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

**Emergency telephone number (with hours of operation)** : 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** : CORROSIVE TO METALS - Category 1  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
AQUATIC HAZARD (LONG-TERM) - Category 2

#### GHS label elements, including precautionary statements

##### Hazard pictograms



**Signal word** : Danger

**Hazard statements** : H290 - May be corrosive to metals.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H411 - Toxic to aquatic life with long lasting effects.

##### Precautionary statements

**Prevention** : P264 - Wash hands thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves. Wear eye or face protection.  
P234 - Keep only in original packaging.

## Section 2. Hazards identification

- Response** : P391 - Collect spillage.  
P390 - Absorb spillage to prevent material damage.  
P362 + P364 - Take off contaminated clothing and wash it before reuse.  
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** : Not applicable.
- 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
- Other means of identification** : Not available.

| Ingredient name     | %   | Identifiers                     |
|---------------------|-----|---------------------------------|
| Isopropyl alcohol   | ≤14 | CAS: 67-63-0<br>EC: 200-661-7   |
| 1-ethoxypropan-2-ol | ≤5  | CAS: 1569-02-4<br>EC: 216-374-5 |
| zinc nitrate        | ≤5  | CAS: 7779-88-6<br>EC: 231-943-8 |

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 contaminated skin with 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. 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** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation.  
**Ingestion** : No known significant effects or critical hazards.

#### 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. This material is toxic 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.

## Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
metal oxide/oxides
- 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. 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. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

## Section 7. Handling and storage

**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 in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep away from metals. 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  |
|---------------------|--|
| Isopropyl alcohol   | <b>Workplace Safety and Health Act (Singapore, 1/2025)</b><br>PEL (long term) 8 hours: 400 ppm.<br>PEL (long term) 8 hours: 983 mg/m <sup>3</sup> .<br>PEL (short term) 15 minutes: 1230 mg/m <sup>3</sup> .<br>PEL (short term) 15 minutes: 500 ppm.<br><b>ACGIH TLV (United States, 1/2025)</b><br>Absorbed through skin.<br>STEL 15 minutes: 200 ppm.<br>TWA 8 hours: 50 ppm. |
| 1-ethoxypropan-2-ol |  |

#### Biological exposure indices

No exposure indices known.

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, 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. 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

## Section 8. Exposure controls/personal 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): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III ; 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2
- 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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid.
- Color** : Dark-Brown. Black.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : 1.4 to 2 [Conc. (% w/w): 100%]
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : 100°C (212°F)
- Flash point** :

| Ingredient name     | Closed cup |      |          | Open cup |    |        |
|---------------------|------------|------|----------|----------|----|--------|
|                     | °C         | °F   | Method   | °C       | °F | Method |
| Isopropyl alcohol   | 11.7       | 53.1 |          |          |    |        |
| 1-ethoxypropan-2-ol | 40         | 104  | IP 34/88 |          |    |        |

- Evaporation rate** : Not available.
- Flammability** : Highly flammable in the presence of the following materials or conditions: heat.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapor pressure** :

| Ingredient name     | Vapor Pressure at 20°C |       |        | Vapor pressure at 50°C |     |        |
|---------------------|------------------------|-------|--------|------------------------|-----|--------|
|                     | mm Hg                  | kPa   | Method | mm Hg                  | kPa | Method |
| Isopropyl alcohol   | 33.00268               | 4.4   |        |                        |     |        |
| 1-ethoxypropan-2-ol | 7.50061                | 1     |        |                        |     |        |
| Phosphoric acid     | 0.03                   | 0.004 |        |                        |     |        |

- Relative vapor density** : Not available.
- Relative density** : Not available.

## Section 9. Physical and chemical properties and safety characteristics

**Solubility(ies)** :

| Media      | Result  |
|------------|---------|
| cold water | Soluble |

**Solubility in water** : Not available.  
**Miscible with water** : Yes.  
**Partition coefficient: n-octanol/water** : Not applicable.  
**Auto-ignition temperature** : Not applicable.  
**Decomposition temperature** : Not available.  
**Viscosity** : Dynamic (room temperature): Not available.  
 Kinematic (room temperature): 1 mm<sup>2</sup>/s (1 cSt)  
 Kinematic (40°C (104°F)): Not available.

### Particle characteristics

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

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

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

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

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

**Incompatible materials** : Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.  
 Reactive or incompatible with the following materials:  
 alkalis  
 metals

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SADT** : Not available.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### **Product/ingredient name**

Isopropyl alcohol

##### **Result**

**Rabbit - Dermal - LD50**

12800 mg/kg

**Rat - Oral - LD50**

5000 mg/kg

**Toxic effects:** Behavioral - General anesthetic

**Rat - Oral - LD50**

4400 mg/kg

**Rabbit - Dermal - LD50**

8100 mg/kg

1-ethoxypropan-2-ol

**Conclusion/Summary [Product]** : Not available.

## Section 11. Toxicological information

### Skin corrosion/irritation

#### Product/ingredient name

Isopropyl alcohol

#### Result

**Rabbit - Skin - Mild irritant**

Amount/concentration applied: 500 mg

**Conclusion/Summary [Product]** : Not available.

### Serious eye damage/eye irritation

#### Product/ingredient name

Isopropyl alcohol

#### Result

**Rabbit - Eyes - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

**Rabbit - Eyes - Moderate irritant**

Amount/concentration applied: 10 mg

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 100 mg

1-ethoxypropan-2-ol

**Rabbit - Eyes - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

Not available.

### Skin

**Conclusion/Summary [Product]** : Not available.

### Respiratory

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

#### Product/ingredient name

#### Result

## Section 11. Toxicological information

|                              |  |
|------------------------------|--|
| 2-propanol                   | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3             |
| propylene glycol ethyl ether | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3             |
| zinc nitrate                 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |

### 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

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | : Causes serious eye damage.                        |
| <b>Inhalation</b>   | : No known significant effects or critical hazards. |
| <b>Skin contact</b> | : Causes skin irritation.                           |
| <b>Ingestion</b>    | : No known significant effects or critical hazards. |

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

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           |
| <b>Inhalation</b>   | : No specific data.  |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur |
| <b>Ingestion</b>    | : Adverse symptoms may include the following:<br>stomach pains   |

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

#### Short term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

|                              |   |
|------------------------------|---|
| <b>General</b>               | : No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards. |
| <b>Reproductive toxicity</b> | : No known significant effects or critical hazards. |

## Section 11. Toxicological information

### 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) |
|------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| 2-propanol                   | 5000         | 12800          | N/A                      | N/A                        | N/A                                 |
| propylene glycol ethyl ether | 4400         | 8100           | N/A                      | N/A                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

Isopropyl alcohol

#### Result

##### Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - *Crangon crangon*

1400 mg/l [48 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Fish - Harlequinfish, red rasbora - *Rasbora heteromorpha*

Size: 1 to 3 cm

4200 mg/l [96 hours]

Effect: Mortality

zinc nitrate

##### Acute - LC50 - Fresh water

Fish - Minnow - *Phoxinus phoxinus* - Adult

Size: 56 to 86 mm

3200 µg/l [96 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

US EPA, OECD

Daphnia - Water flea - *Daphnia magna* - Neonate

Age: 20 to 24 hours

0.553 mg/l [48 hours]

Effect: Mortality

**Conclusion/Summary [Product]** : Not available.

### Persistence and degradability

Not available.

**Conclusion/Summary [Product]** : Not available.

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF   | Potential |
|-------------------------|--------------------|-------|-----------|
| Isopropyl alcohol       | 0.05               | -     | Low       |
| 1-ethoxypropan-2-ol     | <1                 | -     | Low       |
| zinc nitrate            | -                  | 60960 | High      |

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

## Section 12. Ecological information

### 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  | ADN  |
|------------------------------------|--|--|--|--|--|
| <b>UN number</b>                   | UN3264   | UN3264   | UN3264   | UN3264   | UN3264   |
| <b>UN proper shipping name</b>     | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. S.   | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. S. (Phosphoric acid)                           | Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid)                            | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. S. (Phosphoric acid)                             | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. S. (Phosphoric acid)                             |
| <b>Transport hazard class (es)</b> | 8<br> | 8<br> | 8<br> | 8<br> | 8<br> |
| <b>Packing group</b>               | III  | III  | III  | III  | III  |
| <b>Environmental hazards</b>       | No.  | No.  | No.  | No.  | No.  |

### Additional information

**UN** : **Special provisions** 223, 274

**IMDG** : **Emergency schedules** F-A, S-B  
**Special provisions** 223, 274

**IATA** : **Quantity limitation** 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.  
**Special provisions** A3, A803

**ADR/RID** : **Hazard identification number** 80  
**Limited quantity** 5 L  
**Special provisions** 274  
**Tunnel code** (E)  
**ADR Classification Code:** C1

**ADN** : **Special provisions** 274

**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.

## Section 14. Transport information

**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**

|                                |   |
|--------------------------------|---|
| <b>Australia</b>               | : All components are listed or exempted.  |
| <b>Canada</b>                  | : All components are listed or exempted.  |
| <b>China</b>                   | : All components are listed or exempted.  |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory</b> : Not determined.   |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL)</b> : All components are listed or exempted.<br><b>Japan inventory (ISHL)</b> : Not determined. |
| <b>New Zealand</b>             | : All components are listed or exempted.  |
| <b>Philippines</b>             | : Not determined.   |
| <b>Republic of Korea</b>       | : All components are listed or exempted.  |
| <b>Taiwan</b>                  | : All components are listed or exempted.  |
| <b>Thailand</b>                | : Not determined.   |
| <b>Turkey</b>                  | : Not determined.   |
| <b>United States</b>           | : Not determined.   |
| <b>Viet Nam</b>                | : Not determined.   |

## Section 16. Other information

**History**

**Date of printing** : 02/02/2026

**Date of issue/Date of revision** : 29/01/2026

**Date of previous issue** : 04/11/2025

**Version** : 1.3

**Key to abbreviations** : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
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

## Section 16. Other information

IMDG = International Maritime Dangerous Goods  
 IMO = International Maritime Organization  
 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  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SGG = Segregation Group  
 UN = United Nations

### Procedure used to derive the classification

| Classification                                  | Justification         |
|---|-----------------------|
| CORROSIVE TO METALS - Category 1                | Expert judgment       |
| SKIN CORROSION/IRRITATION - Category 2          | Expert judgment       |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 | On basis of test data |
| AQUATIC HAZARD (LONG-TERM) - Category 2         | Calculation method    |

**References** : Not available.

 Indicates information that has changed from previously issued version.

### Notice to reader

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