

Conforms to UN GHS (Rev.7) (2017)

# SAFETY DATA SHEET



Jotun Protects Property

## Barrier 65 Comp A

### Section 1. Identification

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Product identifier</b>            | : Barrier 65 Comp A |
| <b>Product code</b>                  | : 26760             |
| <b>Product type</b>                  | : Liquid.           |
| <b>Product description</b>           | : Paint.            |
| <b>Other means of identification</b> | : Not available.    |

#### Recommended use of the chemical and restrictions on use

Use in coatings - Industrial use

Use in coatings - Professional use

|                           |   |
|---------------------------|---|
| <b>Supplier's details</b> | : Jotun India Pvt. Ltd.<br>Fulcrum, A wing – 601(II) / 602,<br>Next to Hyatt Regency,<br>Sahar Road, Andheri – East, Mumbai – 99<br>India |
|---------------------------|---|

Manufacturing site address:

Jotun India Pvt. Ltd.  
Plot No. D-280, Ranjangaon MIDC,  
Village - Karegaon, Taluka - Shirur,  
Dist- Pune, PIN: 412220  
India

SDSJotun@jotun.com

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| <b>Emergency telephone number</b> | : Jotun India Pvt Ltd +91 2138 671300 |
|-----------------------------------|---------------------------------------|

### Section 2. Hazard identification

|   |   |
|---|---|
| <b>Classification of the substance or mixture</b> | : FLAMMABLE LIQUIDS - Category 3<br>SKIN CORROSION/IRRITATION - Category 2<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A<br>SKIN SENSITISATION - Category 1<br>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
|---|---|

#### GHS label elements

## Section 2. Hazard identification

### Hazard pictograms



### Signal word

: Warning.

### Hazard statements

: H226 - Flammable liquid and vapour.  
 H315 - Causes skin irritation.  
 H317 - May cause an allergic skin reaction.  
 H319 - Causes serious eye irritation.  
 H410 - Very toxic to aquatic life with long lasting effects.

### Precautionary statements

#### General

: Not applicable.

#### Prevention

: P280 - Wear protective gloves. Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P273 - Avoid release to the environment.  
 P261 - Avoid breathing vapour.

#### Response

: P391 - Collect spillage.  
 P362 + P364 - Take off contaminated clothing and wash it 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.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical advice or attention.

#### Storage

: Not applicable.

#### Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**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        | %         | CAS number |
|------------------------|-----------|------------|
| zinc                   | ≥50 - ≤75 | 7440-66-6  |
| epoxy resin (MW ≤ 700) | ≤10       | 1675-54-3  |
| xylene                 | ≤10       | 1330-20-7  |
| 1-methoxy-2-propanol   | ≤3        | 107-98-2   |
| ethylbenzene           | ≤3        | 100-41-4   |
| zinc oxide             | ≤3        | 1314-13-2  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

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

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### 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.

**Specific hazards arising from the chemical** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very 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.

**Hazardous thermal decomposition products** :  Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised 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 spilt 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 material 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 the 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 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 ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations.

#### **Notes on joint storage**

Keep away from: oxidising agents, strong alkalis, strong acids.

#### **Additional information on storage conditions**

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

See Technical Data Sheet / packaging for further information.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

#### Biological exposure indices

No exposure indices known.

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

**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.

## Section 8. Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying to ISO 16321-1:2022 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.
- Skin protection**
- Hand protection** : There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
- ☑ Wear suitable gloves tested to ISO 374-1:2016.  
 May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber (> 0.4 mm)  
 Not recommended, gloves(breakthrough time) < 1 hour: neoprene (> 0.35 mm), PVC (> 0.5 mm)  
 Recommended, gloves(breakthrough time) > 8 hours: 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), nitrile rubber (> 0.75 mm), polyvinyl alcohol (PVA) (> 0.3 mm)
- For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- 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** : If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387(as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

## 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.
- Colour** : Grey
- Odour** : Characteristic.
- Odour threshold** : Not applicable.
- pH** : Not applicable.
- Melting point/freezing point** : Not applicable.

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

|   |   |
|---|---|
| <b>Boiling point</b>                                      | : Lowest known value: 120.17°C (248.3°F) (1-methoxy-2-propanol). Weighted average: 200.46°C (392.8°F)                 |
| <b>Flash point</b>  | : Closed cup: 27°C (80.6°F)   |
| <b>Evaporation rate</b>                                   | : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79 compared with butyl acetate                         |
| <b>Flammability</b>                                       | : Not applicable.   |
| <b>Lower and upper explosion limit/flammability limit</b> | : 0.8 - 13.74%  |
| <b>Vapour pressure</b>                                    | : Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.56 kPa (4.2 mm Hg) (at 20°C) |
| <b>Vapour density</b>                                     | : Highest known value: 11.7 (Air = 1) (epoxy resin (MW ≤ 700)). Weighted average: 7.16 (Air = 1)                      |
| <b>Density</b>  | : 2.695 g/cm <sup>3</sup>   |
| <b>Solubility(ies)</b>                                    | :   |

| Media      | Result      |
|------------|-------------|
| cold water | Not soluble |
| hot water  | Not soluble |

|   |  |
|---|--|
| <b>Partition coefficient: n-octanol/water</b> | : Not available.   |
| <b>Auto-ignition temperature</b>              | : Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).      |
| <b>Decomposition temperature</b>              | : Not available.   |
| <b>Viscosity</b>                              | : Kinematic (40°C (104°F)): >20.5 mm <sup>2</sup> /s (>20.5 cSt) |
| <b>Particle characteristics</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>                 | : Stable under recommended storage and handling conditions (see Section 7).  |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.  |
| <b>Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products.  |
| <b>Incompatible materials</b>             | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| <b>Hazardous decomposition products</b>   | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.        |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                 | Species    | Dose        | Exposure |
|-------------------------|------------------------|------------|-------------|----------|
| epoxy resin (MW ≤ 700)  | LD50 Dermal            | Rabbit     | 20 g/kg     | -        |
|                         | LD50 Oral              | Mouse      | 15600 mg/kg | -        |
| xylene                  | LC50 Inhalation Vapour | Rat        | 20 mg/l     | 4 hours  |
|                         | LD50 Oral              | Rat        | 4300 mg/kg  | -        |
| 1-methoxy-2-propanol    | TDLo Dermal            | Rabbit     | 4300 mg/kg  | -        |
|                         | LD50 Dermal            | Rabbit     | 13 g/kg     | -        |
| ethylbenzene            | LD50 Oral              | Rat        | 6600 mg/kg  | -        |
|                         | LC50 Inhalation Vapour | Rat - Male | 17.8 mg/l   | 4 hours  |
|                         | LD50 Dermal            | Rabbit     | >5000 mg/kg | -        |
|                         | LD50 Oral              | Rat        | 3500 mg/kg  | -        |

## Section 11. Toxicological information

### Irritation/Corrosion

| Product/ingredient name | Result                 | Species | Score | Exposure                           | Observation |
|-------------------------|------------------------|---------|-------|------------------------------------|-------------|
| zinc                    | Skin - Mild irritant   | Human   | -     | 72 hours 300 Micrograms            | -           |
| epoxy resin (MW ≤ 700)  | Eyes - Severe irritant | Rabbit  | -     | Intermittent 24 hours 2 milligrams | -           |
|                         | Skin - Mild irritant   | Rabbit  | -     | 500 milligrams                     | -           |
| xylene                  | Eyes - Mild irritant   | Rabbit  | -     | 87 milligrams                      | -           |
|                         | Skin - Mild irritant   | Rat     | -     | 8 hours 60 microliters             | -           |
| 1-methoxy-2-propanol    | Eyes - Mild irritant   | Rabbit  | -     | 24 hours 500 mg                    | -           |
| zinc oxide              | Skin - Mild irritant   | Rabbit  | -     | 500 mg                             | -           |
|                         | Eyes - Mild irritant   | Rabbit  | -     | 24 hours 500 mg                    | -           |
|                         | Skin - Mild irritant   | Rabbit  | -     | 24 hours 500 mg                    | -           |

### Sensitisation

| Product/ingredient name | Route of exposure | Species                      | Result      |
|-------------------------|-------------------|------------------------------|-------------|
| epoxy resin (MW ≤ 700)  | skin              | Mammal - species unspecified | Sensitising |

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| xylene                  | Category 3 | -                 | Respiratory tract irritation |
| 1-methoxy-2-propanol    | Category 3 | -                 | Narcotic effects             |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs  |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene            | Category 2 | -                 | hearing organs |

### Aspiration hazard

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| xylene                  | ASPIRATION HAZARD - Category 1 |
| ethylbenzene            | ASPIRATION HAZARD - Category 1 |

Information on likely routes of exposure : Not available.

### Potential acute health effects



## Section 11. Toxicological information

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : Causes serious eye irritation.                               |
| <b>Inhalation</b>   | : No known significant effects or critical hazards.            |
| <b>Skin contact</b> | : Causes skin irritation. May cause an allergic skin reaction. |
| <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 or irritation<br>watering<br>redness |
| <b>Inhalation</b>   | : No specific data.  |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>redness                     |
| <b>Ingestion</b>    | : No specific data.  |

### Delayed and immediate effects as well as 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.

|                              |   |
|------------------------------|---|
| <b>General</b>               | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| <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.   |

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Barrier 65 Comp A       | N/A          | 15855.9        | N/A                      | 209.7                       | N/A                                 |
| xylene                  | N/A          | 1100           | N/A                      | 20                          | N/A                                 |
| 1-methoxy-2-propanol    | 6600         | 13000          | N/A                      | N/A                         | N/A                                 |
| ethylbenzene            | N/A          | N/A            | N/A                      | 17.8                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                             | Species  | Exposure |
|-------------------------|------------------------------------|--|----------|
| zinc                    | Acute LC50 330 µg/l Fresh water    | Daphnia - Daphnia magna  | 48 hours |
|                         | Acute LC50 0.78 mg/l Fresh water   | Fish   | 96 hours |
| epoxy resin (MW ≤ 700)  | Acute EC50 1.4 mg/l                | Daphnia  | 48 hours |
|                         | Acute LC50 3.1 mg/l                | Fish - pimephales promelas   | 96 hours |
| xylene                  | Chronic NOEC 0.3 mg/l              | Fish   | 21 days  |
|                         | Acute LC50 8500 µg/l Marine water  | Crustaceans - Palaemonetes pugio                                   | 48 hours |
| ethylbenzene            | Acute LC50 13400 µg/l Fresh water  | Fish - Pimephales promelas   | 96 hours |
|                         | Acute EC50 7700 µg/l Marine water  | Algae - Skeletonema costatum                                       | 96 hours |
| zinc oxide              | Acute EC50 2.93 mg/l               | Daphnia  | 48 hours |
|                         | Acute LC50 4.2 mg/l                | Fish   | 96 hours |
|                         | Acute LC50 1.1 ppm Fresh water     | Fish - Oncorhynchus mykiss   | 96 hours |
|                         | Chronic NOEC 0.02 mg/l Fresh water | Algae - Pseudokirchneriella subcapitata - Exponential growth phase | 72 hours |

### Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| zinc                    | -                 | -          | Not readily      |
| epoxy resin (MW ≤ 700)  | -                 | -          | Not readily      |
| xylene                  | -                 | -          | Readily          |
| ethylbenzene            | -                 | -          | Readily          |
| zinc oxide              | -                 | -          | Not readily      |

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------|--------------------|-------------|-----------|
| epoxy resin (MW ≤ 700)  | 2.64 to 3.78       | 31          | low       |
| xylene                  | 3.12               | 8.1 to 25.9 | low       |
| 1-methoxy-2-propanol    | <1                 | -           | low       |
| ethylbenzene            | 3.6                | -           | low       |
| zinc oxide              | -                  | 28960       | high      |

### 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 minimised 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | UN   | IMDG   | IATA   |
|----------------------------|--|--|--|
| UN number                  | UN1263   | UN1263   | UN1263   |
| UN proper shipping name    | Paint  | Paint. Marine pollutant (zinc)   | Paint  |
| Transport hazard class(es) | 3<br> | 3<br>  | 3<br> |
| Packing group              | III  | III  | III  |
| Environmental hazards      | Yes. The environmentally hazardous substance mark is not required.                     | Yes.   | Yes. The environmentally hazardous substance mark is not required.                       |

### Additional information

- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Emergency schedules** F-E, S-E
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
- ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Hazard identification number** 30  
**Tunnel code** (D/E)

**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

### 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.

## Section 16. Other information

### History

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**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         |
|---|-----------------------|
| FLAMMABLE LIQUIDS - Category 3                  | On basis of test data |
| SKIN CORROSION/IRRITATION - Category 2          | Calculation method    |
| SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A | Calculation method    |
| SKIN SENSITISATION - Category 1                 | Calculation method    |
| SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  | Calculation method    |
| LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 | Calculation method    |

**References** : Not available.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

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