

# SAFETY DATA SHEET



Jotun Protects Property

## Epoxy HR Comp A

### Section 1. Identification

**Product name** : Epoxy HR Comp A  
**Product code** : 1505  
**Product description** : Paint.  
**Product type** : Liquid.  
**Other means of identification** : Not available.

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

##### **Identified uses**

Use in coatings - Industrial use  
Use in coatings - Professional use  
Oil paint

**Supplier** : Jotun Australia Pty. Ltd.  
59 Calarco Drive,  
Derrimut, VIC 3026,  
Australia  
  
Phone: + 61 39314 0722  
E-mail: SDSJotun@jotun.com

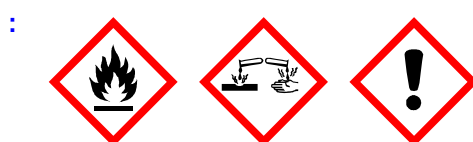
**Emergency telephone number** : Medical Emergencies 24 hours: Poisons Information Centre (Australia) 131 126

### Section 2. Hazard(s) identification

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
SKIN SENSITIZATION - Category 1  
AQUATIC HAZARD (LONG-TERM) - Category 3

#### GHS label elements

##### **Hazard pictograms**



**Signal word** : DANGER

**Hazard statements** : H226 - Flammable liquid and vapor.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary statements

## Section 2. Hazard(s) identification

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prevention</b>                                          | : P280 - Wear protective gloves. Wear eye or face protection.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P273 - Avoid release to the environment.<br>P261 - Avoid breathing vapor.                                                                                                                                                                                 |
| <b>Response</b>                                            | : P302 + P352 - IF ON SKIN: Wash with plenty of water.<br>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.<br>P362 + P364 - Take off contaminated clothing and wash it before reuse.<br>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.<br>Immediately call a POISON CENTER or doctor. |
| <b>Storage</b>                                             | : P403 + P235 - Store in a well-ventilated place. Keep cool.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Disposal</b>                                            | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                                                                                                                                                                                                                          |
| <b>Supplemental label elements</b>                         | : Contains engineered/manufactured nanomaterials. Caution: Hazards unknown.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Other hazards which do not result in classification</b> | : None known.                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Section 3. Composition and ingredient information

|                                      |                  |
|--------------------------------------|------------------|
| <b>Substance/mixture</b>             | : Mixture        |
| <b>Other means of identification</b> | : Not available. |

| Ingredient name                                                              | % (w/w)   | CAS number      |
|------------------------------------------------------------------------------|-----------|-----------------|
| titanium dioxide                                                             | ≥10 - ≤30 | CAS: 13463-67-7 |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-xylene | ≥10 - ≤17 | CAS: 1675-54-3  |
| barium sulfate                                                               | ≤13       | CAS: 1330-20-7  |
| talc (non-asbestos form)                                                     | ≥10 - ≤30 | CAS: 7727-43-7  |
| phenol, polymer with formaldehyde, glycidyl ether                            | ≥10 - ≤30 | CAS: 14807-96-6 |
| butan-1-ol                                                                   | ≤7.5      | CAS: 28064-14-4 |
| ethylbenzene                                                                 | ≤6.2      | CAS: 71-36-3    |
| ethylbenzene                                                                 | ≤5        | CAS: 100-41-4   |
| Aluminium powder (stabilized)                                                | ≤3        | CAS: 7429-90-5  |

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** : 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.
- 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.
- 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. 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  
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** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## Section 4. First aid measures

- 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** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Flammable liquid and vapor. 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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur 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. 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.

- Hazchem code** : •3Y

## 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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.

### Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 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. 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. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

See Technical Data Sheet / packaging for further information.

## Section 8. Exposure controls and personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### Control parameters

#### Occupational exposure limits

## Section 8. Exposure controls and personal protection

| Ingredient name                                                               | Exposure limits                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| titanium dioxide                                                              | <b>Safe Work Australia (Australia, 11/2025)</b><br>TWA 8 hours: 10 mg/m <sup>3</sup> .                                                                                                                                                                                                               |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bis-xylene | <b>DFG MAC-values list (Germany, 7/2025)</b><br>Skin sensitizer.<br><b>Safe Work Australia (Australia, 11/2025)</b><br><b>[Xylene (o-, m-, p- isomers)]</b><br>STEL 15 minutes: 655 mg/m <sup>3</sup> .<br>STEL 15 minutes: 150 ppm.<br>TWA 8 hours: 350 mg/m <sup>3</sup> .<br>TWA 8 hours: 80 ppm. |
| barium sulfate                                                                | <b>Safe Work Australia (Australia, 11/2025)</b><br>TWA 8 hours: 10 mg/m <sup>3</sup> .                                                                                                                                                                                                               |
| talc (non-asbestos form)                                                      | <b>Safe Work Australia (Australia, 11/2025)</b><br>TWA 8 hours: 2.5 mg/m <sup>3</sup> .                                                                                                                                                                                                              |
| butan-1-ol                                                                    | <b>Safe Work Australia (Australia, 11/2025)</b><br>Absorbed through skin.<br>PEAK: 50 ppm.<br>PEAK: 152 mg/m <sup>3</sup> .                                                                                                                                                                          |
| benzene, ethyl-                                                               | <b>Safe Work Australia (Australia, 11/2025)</b><br>STEL 15 minutes: 543 mg/m <sup>3</sup> .<br>STEL 15 minutes: 125 ppm.<br>TWA 8 hours: 434 mg/m <sup>3</sup> .<br>TWA 8 hours: 100 ppm.                                                                                                            |
| aluminium powder (stabilised)                                                 | <b>Safe Work Australia (Australia, 11/2025)</b><br>TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Dust.<br>TWA 8 hours: 1 mg/m <sup>3</sup> (as Al). Form: Welding fume.                                                                                                                                  |

### 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, vapor 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.

#### 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 and 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. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- 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: Viton® (> 0.7 mm), neoprene (> 0.35 mm), butyl rubber (> 0.4 mm)
- Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm)
- Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.75 mm), 4H/ Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm)
- Body protection** : Use chemical-resistant protective suit / disposable overall.
- 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** : 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.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : aluminum, Grey, Red, White.
- Odor** : Characteristic.
- Odor threshold** : Not applicable.
- pH** : Not applicable.
- Melting point** : Not applicable.
- Boiling point** : Not available.
- Flash point** : Closed cup: 25°C (77°F)
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.

## Section 9. Physical and chemical properties

|                  |                                   |
|------------------|-----------------------------------|
| Vapor pressure   | : Not available.                  |
| Vapor density    | : Not available.                  |
| Relative density | : 1.529 to 1.66 g/cm <sup>3</sup> |
| Solubility(ies)  | :                                 |

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

|                                        |                                                                                                                                                                |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partition coefficient: n-octanol/water | : Not applicable.                                                                                                                                              |
| Auto-ignition temperature              | : Not available.                                                                                                                                               |
| Decomposition temperature              | : Not available.                                                                                                                                               |
| Viscosity                              | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C (104°F)): >20.5 mm <sup>2</sup> /s (>20.5 cSt) |

## 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                | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| Incompatible materials             | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.                                          |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.                                                                    |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### Product/ingredient name

Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-

##### Result

##### Mouse - Oral - LD50

15600 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Gastrointestinal - Hypermotility, diarrhea Gross Metabolite Changes - Weight loss or decreased weight gain

##### Rabbit - Dermal - LD50

20 g/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Gastrointestinal - Hypermotility, diarrhea Gross Metabolite Changes - Weight loss or decreased weight gain

##### Rat - Oral - LD50

4300 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes

##### Rabbit - Dermal - TDLo

4300 mg/kg

Toxic effects: Skin After topical exposure - Corrosive

##### Rat - Inhalation - LC50 Vapor

11 mg/l [4 hours]

##### Rat - Oral - LD50

xylene

butan-1-ol

## Section 11. Toxicological information

benzene, ethyl-

790 mg/kg

Toxic effects: Liver - Fatty liver degeneration Kidney, Ureter, and Bladder - Other changes Blood - Other changes**Rat - Oral - LD50**

3500 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes**Rabbit - Dermal - LD50**

&gt;5000 mg/kg

**Rat - Male - Inhalation - LC50 Vapor**

11 mg/l [4 hours]

**Conclusion/Summary [Product]** : Not available.Skin corrosion/irritation**Product/ingredient name**

titanium dioxide

Oxirane, 2,2'-[(1-methylethylidene)bis  
(4,1-phenyleneoxymethylene)]bis-  
xylenephenol, polymer with formaldehyde, glycidyl  
ether**Result****Human - Skin - Mild irritant**Duration of treatment/exposure: 72 hours**Rabbit - Skin - Mild irritant**Amount/concentration applied: 500 milligrams**Rat - Skin - Mild irritant**Duration of treatment/exposure: 8 hoursAmount/concentration applied: 60 microliters**Mammal - species unspecified - Skin - Mild irritant****Conclusion/Summary [Product]** : Not available.Serious eye damage/eye irritation**Product/ingredient name**Oxirane, 2,2'-[(1-methylethylidene)bis  
(4,1-phenyleneoxymethylene)]bis-

xylene

phenol, polymer with formaldehyde, glycidyl  
ether**Result****Rabbit - Eyes - Severe irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 2 milligrams**Rabbit - Eyes - Mild irritant**Amount/concentration applied: 87 milligrams**Mammal - species unspecified - Eyes - Mild irritant****Conclusion/Summary [Product]** : Not available.Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.Respiratory or skin sensitization**Product/ingredient name**Oxirane, 2,2'-[(1-methylethylidene)bis  
(4,1-phenyleneoxymethylene)]bis-  
phenol, polymer with formaldehyde, glycidyl  
ether**Result****Mammal - species unspecified - skin**Result: Sensitizing**Mammal - species unspecified - skin**Result: Sensitizing**Skin****Conclusion/Summary [Product]** : Not available.

## Section 11. Toxicological information

### Ingredient name

Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-phenol, polymer with formaldehyde, glycidyl ether

### Conclusion/Summary

May cause an allergic skin reaction.

May cause an allergic skin reaction.

### 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

xylene

butan-1-ol

#### Result

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

### Specific target organ toxicity (repeated exposure)

#### Product/ingredient name

benzene, ethyl-

#### Result

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

### Aspiration hazard

#### Product/ingredient name

xylene

benzene, ethyl-

#### Result

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**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.

## Section 11. Toxicological information

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

- 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.

**Conclusion/Summary [Product]** : 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.
- Reproductive toxicity** : 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) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Epoxy HR Comp A         | 9370.4       | 9424.7         | N/A                      | 70.7                       | N/A                                 |
| xylene                  | 4300         | 1100           | N/A                      | 11                         | N/A                                 |
| butan-1-ol              | 500          | N/A            | N/A                      | N/A                        | N/A                                 |
| ethylbenzene            | 3500         | N/A            | N/A                      | 11                         | N/A                                 |

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

titanium dioxide

#### Result

##### Acute - LC50 - Marine water

Fish - Mummichog - *Fundulus heteroclitus*  
>1000000 µg/l [96 hours]Effect: Mortality

##### Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - NeonateAge: <24 hours

3 mg/l [48 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia pulex* - NeonateAge: <24 hours

6.5 mg/l [48 hours]

Effect: MortalityOxirane, 2,2'-[(1-methylethylidene)bis  
(4,1-phenyleneoxymethylene)]bis-

##### Acute - LC50

Fish - *pimephales promelas*

3.1 mg/l [96 hours]

##### Acute - EC50

Daphnia

1.4 mg/l [48 hours]

##### Chronic - NOEC

Fish

0.3 mg/l [21 days]

xylene

##### Acute - LC50 - Marine water

Crustaceans - Daggerblade grass shrimp - *Palaemonetes pugio*

8500 µg/l [48 hours]

Effect: Mortality

##### Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*Age: 31 days; Size: 18.4 mm; Weight: 0.077 g

13400 µg/l [96 hours]

Effect: Mortalityphenol, polymer with formaldehyde, glycidyl  
ether

##### Acute - LC50

Fish - Trout

7.5 mg/l [96 hours]

##### Acute - EC50

Daphnia

3.3 mg/l [48 hours]

benzene, ethyl-

##### Acute - EC50

Daphnia

2.93 mg/l [48 hours]

Effect: Intoxication

##### Acute - LC50

Fish

4.2 mg/l [96 hours]

Effect: Mortality

##### Acute - EC50 - Marine water

Algae - Diatom - *Skeletonema costatum*

7700 µg/l [96 hours]

Effect: Population

aluminium powder (stabilised)

##### Acute - LC50 - Fresh water

Fish - Loach Family - *Cobitidae* - Fry

1130 µg/l [96 hours]

Effect: Mortality

##### Chronic - NOEC - Fresh water

Aquatic plants - Coontail - *Ceratophyllum demersum*Weight: 3.5 g

9 mg/l [3 days]

## Section 12. Ecological information

Effect: Enzymes

**Acute - LC50**

Daphnia - Water flea - *Daphnia magna*

38000 µg/l [48 hours]

Effect: Mortality

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

### Persistence and degradability

Not available.

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

| Product/ingredient name                                                       | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------------------------------------------------------------|-------------------|------------|------------------|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bis-xylene | -                 | -          | Not readily      |
| phenol, polymer with formaldehyde, glycidyl ether                             | -                 | -          | Readily          |
| benzene, ethyl-                                                               | -                 | -          | Not readily      |
|                                                                               | -                 | -          | Readily          |

### Bioaccumulative potential

| Product/ingredient name                                                       | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------------------------------------------------------------|--------------------|-------------|-----------|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bis-xylene | 2.64 to 3.78       | 31          | Low       |
| butan-1-ol                                                                    | 3.12               | 8.1 to 25.9 | Low       |
| benzene, ethyl-                                                               | 1                  | -           | Low       |
|                                                                               | 3.6                | -           | Low       |

### Mobility in soil

**Soil/Water partition coefficient** : 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

## Section 13. Disposal considerations

sewers.

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

## Section 14. Transport information

|                            | ADG                                                                                                                                                                   | ADR/RID                                                                                                                                                                                                            | IMDG                                                                                                                                                                            | IATA                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| UN number                  | UN1263                                                                                                                                                                | UN1263                                                                                                                                                                                                             | UN1263                                                                                                                                                                          | UN1263                                                                                   |
| UN proper shipping name    | Paint                                                                                                                                                                 | Paint                                                                                                                                                                                                              | Paint                                                                                                                                                                           | Paint                                                                                    |
| Transport hazard class(es) | 3<br>                                                                                | 3<br>                                                                                                                             | 3<br>                                                                                         | 3<br> |
| Packing group              | III                                                                                                                                                                   | III                                                                                                                                                                                                                | III                                                                                                                                                                             | III                                                                                      |
| Environmental hazards      | No.                                                                                                                                                                   | No.                                                                                                                                                                                                                | No.                                                                                                                                                                             | No.                                                                                      |
| Additional information     | <b>Hazchem code</b> •3Y<br><b>Viscous liquid exception</b> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1. | <b>Hazard identification number</b> 30<br><b>Viscous liquid exception</b> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.<br><b>Tunnel code</b> (D/E) | <b>Emergency schedules</b> F-E, S-E<br><b>Viscous liquid exception</b> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. | -                                                                                        |

**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.

**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 accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.

**ADR / RID** : ADR/RID: Viscous substance. Not goods of class 3, ref. 2.2.3.1.5 (only applicable to receptacles < 450 litre capacity).

**IMDG** : IMDG: Viscous substance. Transport in accordance with 2.3.2.5 of the IMDG Code (only applicable to receptacles < 450 litre capacity).

## Section 15. Regulatory information

### Standard for the Uniform Scheduling of Medicines and Poisons

5

### Model Work Health and Safety Regulations - Scheduled Substances

| <u>Ingredient name</u>    | <u>Schedule</u>                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------|
| quartz, alveolar (<10 µm) | Restricted hazardous chemical [For abrasive blasting at a concentration of greater than 1%] |

### 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. Any other relevant information

### History

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Version : 1

### Key to abbreviations

ADG = Australian Dangerous Goods  
 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)  
 NOHSC = National Occupational Health and Safety Commission  
 SUSMP = Standard for the Uniform Scheduling of Medicines and Poisons  
 UN = United Nations

### Procedure used to derive the classification

| <u>Classification</u>                           | <u>Justification</u>  |
|-------------------------------------------------|-----------------------|
| FLAMMABLE LIQUIDS - Category 3                  | On basis of test data |
| SKIN CORROSION/IRRITATION - Category 2          | Calculation method    |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 | Calculation method    |
| SKIN SENSITIZATION - Category 1                 | Calculation method    |
| AQUATIC HAZARD (LONG-TERM) - Category 3         | Calculation method    |

References : Not available.

Indicates information that has changed from previously issued version.

### Disclaimer

## **Section 16. Any other relevant information**

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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.*

*If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.*