

# SAFETY DATA SHEET



Jotun Protects Property

## Barrier 80 XT Comp B

### Section 1. Chemical product and company identification

**Product name** : Barrier 80 XT Comp B  
**Product code** : 54963  
**Product type** : Liquid.  
**Product description** : Hardener.

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

##### Identified uses

Use in coatings - Industrial use

Use in coatings - Professional use

##### Uses advised against

Not applicable.

##### Supplier's details

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## Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

**Classification of the substance or mixture** :

- FLAMMABLE LIQUIDS - Category 3
- ACUTE TOXICITY (oral) - Category 4
- ACUTE TOXICITY (dermal) - Category 5
- SKIN CORROSION/IRRITATION - Category 1B
- SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
- SKIN SENSITISATION - Category 1
- CARCINOGENICITY - Category 2
- SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
- SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
- SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3
- LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

### GHS label elements

#### Hazard pictograms



#### Signal word

: Danger.

#### Hazard statements

: H226 - Flammable liquid and vapour.  
 H302 - Harmful if swallowed.  
 H313 - May be harmful in contact with skin.  
 H314 - Causes severe skin burns and eye damage.  
 H317 - May cause an allergic skin reaction.  
 H335 - May cause respiratory irritation.  
 H351 - Suspected of causing cancer.  
 H373 - May cause damage to organs through prolonged or repeated exposure.  
 H402 - Harmful to aquatic life.  
 H411 - Toxic to aquatic life with long lasting effects.

### Precautionary statements

#### General

: Not applicable.

#### Prevention

: P201 - Obtain special instructions before use.  
 P280 - Wear protective gloves, protective clothing and 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.  
 P260 - Do not breathe vapour.  
 P270 - Do not eat, drink or smoke when using this product.

#### Response

: P391 - Collect spillage.  
 P308 + P313 - IF exposed or concerned: Get medical advice or attention.  
 P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.  
 P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.  
 P363 - Wash contaminated clothing 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

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 - Keep cool.

#### Disposal

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

## Section 2. Hazards identification

**Physical and chemical hazards** : Flammable liquid and vapour.

**Health hazards** : Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing cancer.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

| Ingredient name                              | %    | CAS number        |
|----------------------------------------------|------|-------------------|
| xylene                                       | ≤50  | CAS: 1330-20-7    |
| aminepoxyadduct                              | ≤50  | CAS: 1075254-00-0 |
| ethylbenzene                                 | <25  | CAS: 100-41-4     |
| benzyl alcohol                               | ≤25  | CAS: 100-51-6     |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | ≤10  | CAS: 2855-13-2    |
| 2-methylpentane-1,5-diamine                  | ≤2.3 | CAS: 15520-10-2   |
| 2,4,6-tris(dimethylaminomethyl)phenol        | ≤3   | CAS: 90-72-2      |

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** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes severe burns. May be harmful in contact with skin. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- 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. 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.

## Section 5. Firefighting measures

- 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 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  
nitrogen 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. Do not breathe 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. 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 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt 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

## Section 7. Handling and storage

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protective measures</b>                                          | : 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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour 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. |
| <b>Advice on general occupational hygiene</b>                       | : 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Conditions for safe storage, including any incompatibilities</b> | : 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 oxidising 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 unlabelled 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                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|
| xylene          | <b>GBZ 2.1 (China, 7/2024) [Xylene]</b><br>PC-TWA 8 hours: 50 mg/m <sup>3</sup> .<br>PC-STEL 15 minutes: 100 mg/m <sup>3</sup> . |
| ethylbenzene    | <b>GBZ 2.1 (China, 7/2024) G2B.</b><br>PC-TWA 8 hours: 100 mg/m <sup>3</sup> .<br>PC-STEL 15 minutes: 150 mg/m <sup>3</sup> .    |

#### Biological exposure indices

| Ingredient name | Exposure indices                                                                                                                                                                                              |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xylene          | <b>GBZ 2.1 (China, 11/2022)</b><br>BEI: 0.4 g/L, methylhippuric acids [in urine].<br>Sampling time: end of work shift.<br>BEI: 0.3 g/g Cr, methylhippuric acids [in urine]. Sampling time: end of work shift. |
| ethylbenzene    | <b>GBZ 2.1 (China, 11/2022)</b><br>BEI: 0.8 g/g Cr, mandelic acid and phenylglyoxylic acid (MA and PGA) [in urine].<br>Sampling time: end of work shift.                                                      |

## Section 8. Exposure controls/personal protection

- 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.
- Eye/face protection** : Safety eyewear complying to EN 166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Skin protection**
- Hand protection** : 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 EN 374. Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm), 4H/Silver Shield® (> 0.07 mm), fluor rubber (> 0.35 mm), Viton® (> 0.7 mm), nitrile rubber (> 0.75 mm) May be used, gloves(breakthrough time) 4 - 8 hours: PVC (> 0.5 mm), neoprene (> 0.35 mm), butyl rubber (> 0.4 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** : 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.

## Section 8. Exposure controls/personal protection

**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 and safety characteristics

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

### Appearance

**Physical state** : Liquid.  
**Colour** : Colourless to light yellow.  
**Odour** : Amine-like.  
**Odour threshold** : Not applicable.  
**pH** : Not applicable.  
**Melting point/freezing point** : Not applicable.  
**Boiling point, initial boiling point, and boiling range** : Not available.  
**Flash point** : Closed cup: 28°C (82.4°F)  
**Evaporation rate** : Not available.  
**Flammability** : Not applicable.  
**Lower and upper explosion limit/flammability limit** : Not available.  
**Vapour pressure** : Not available.

| Ingredient name | Vapour Pressure at 20°C |        |        | Vapour pressure at 50°C |     |        |
|-----------------|-------------------------|--------|--------|-------------------------|-----|--------|
|                 | mm Hg                   | kPa    | Method | mm Hg                   | kPa | Method |
| ethylbenzene    | 9.30076                 | 1.2    |        |                         |     |        |
| xylene          | 6.7                     | 0.89   |        |                         |     |        |
| benzyl alcohol  | 0.05                    | 0.0067 |        |                         |     |        |

**Relative vapour density** : Not available.

**Density** : 0.948 g/cm<sup>3</sup>

**Solubility(ies)** :

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

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/water** : Not applicable.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**Viscosity** : Dynamic (room temperature): Not available.  
 Kinematic (room temperature): Not available.  
 Kinematic (40°C (104°F)): >20.5 mm<sup>2</sup>/s (>20.5 cSt)

### Particle characteristics

**Median particle size** : Not applicable.

No additional information.

## Section 10. Stability and reactivity

|                                           |                                                                                                                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                                                              |
| <b>Chemical stability</b>                 | : The product is stable.                                                                                                                                                  |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                         |
| <b>Conditions to avoid</b>                | : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials:<br>oxidising materials                                                                                           |
| <b>Hazardous decomposition products</b>   | : 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

xylene

##### Result

##### 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 Vapour

11 mg/l [4 hours]

ethylbenzene

##### 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 Vapour

11 mg/l [4 hours]

benzyl alcohol

##### Rat - Oral - LD50

1230 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Behavioral - Coma

3-aminomethyl-

##### Rat - Oral - LD50

3,5,5-trimethylcyclohexylamine

1030 mg/kg

2-methylpentane-1,5-diamine

##### Rat - Oral - LD50

1690 mg/kg

2,4,6-tris(dimethylaminomethyl)phenol

##### Rat - Oral - LD50

500 mg/kg

##### Conclusion/Summary[Product]

: Not available.

#### Skin corrosion/irritation

##### Product/ingredient name

##### Result

## Section 11. Toxicological information

xylene

**Rat - Skin - Mild irritant**Duration of treatment/exposure: 8 hoursAmount/concentration applied: 60 microliters

2-methylpentane-1,5-diamine

**Rabbit - Skin - Severe irritant**Amount/concentration applied: 0.5 Milliliters

2,4,6-tris(dimethylaminomethyl)phenol

**Rat - Skin - Severe irritant**Amount/concentration applied: 0.25 ml**Conclusion/Summary[Product]**

: Not available.

### Serious eye damage/eye irritation

**Product/ingredient name****Result**

xylene

**Rabbit - Eyes - Mild irritant**Amount/concentration applied: 87 milligrams

aminepoxyadduct

**Mammal - species unspecified - Eyes - Irritant**

benzyl alcohol

**Mammal - species unspecified - Eyes - Mild irritant**

2-methylpentane-1,5-diamine

**Rabbit - Eyes - Severe irritant**Amount/concentration applied: 0.1 Milliliters

2,4,6-tris(dimethylaminomethyl)phenol

**Rabbit - Eyes - Severe irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 50 µg**Conclusion/Summary[Product]**

: Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary[Product]**

: Not available.

### Respiratory or skin sensitization

**Product/ingredient name****Result**

aminepoxyadduct

**Mammal - species unspecified - skin**Result: Sensitising

3-aminomethyl-

**Mammal - species unspecified - skin**

3,5,5-trimethylcyclohexylamine

Result: Sensitising

### **Skin**

**Conclusion/Summary[Product]**

: Not available.

**Ingredient name****Conclusion/Summary**

aminepoxyadduct

May cause an allergic skin reaction.

3-aminomethyl-

May cause an allergic skin reaction.

3,5,5-trimethylcyclohexylamine

### **Respiratory**

**Conclusion/Summary[Product]**

: Not available.

### Germ Cell Mutagenicity

Not available.

**Conclusion/Summary[Product]**

: Not available.

### Carcinogenicity

## Section 11. Toxicological information

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

2-methylpentane-1,5-diamine

#### **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 (repeated exposure)

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

ethylbenzene

#### **Result**

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

### Aspiration hazard

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

xylene

ethylbenzene

#### **Result**

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

### Information on likely routes of exposure

Not available.

### Potential acute health effects

- |                     |                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Causes serious eye damage.                                                                     |
| <b>Inhalation</b>   | : May cause respiratory irritation.                                                              |
| <b>Skin contact</b> | : Causes severe burns. May be harmful in contact with skin. May cause an allergic skin reaction. |
| <b>Ingestion</b>    | : Harmful if swallowed.                                                                          |

### 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>   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing              |
| <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                                         |

## Section 11. Toxicological information

### Delayed and immediate effects as well as 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** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**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 (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|----------------------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Barrier 80 XT Comp B                         | 1398.2       | 2727.6         | N/A                      | 27.3                        | N/A                                 |
| xylene                                       | N/A          | 1100           | N/A                      | 11                          | N/A                                 |
| aminepoxyadduct                              | 500          | N/A            | N/A                      | N/A                         | N/A                                 |
| benzyl alcohol                               | 1200         | N/A            | N/A                      | N/A                         | N/A                                 |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 1030         | N/A            | N/A                      | N/A                         | N/A                                 |
| 2-methylpentane-1,5-diamine                  | 1690         | 1100           | N/A                      | 11                          | N/A                                 |
| 2,4,6-tris(dimethylaminomethyl)phenol        | 2500         | N/A            | N/A                      | N/A                         | N/A                                 |

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

xylene

#### Result

##### 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]

## Section 12. Ecological information

aminepoxyadduct

Effect: Mortality

**Acute - LC50**Fish - Trout - *Oncorhynchus Mykiss*

7.9 mg/l [96 hours]

**Acute - EC50**Daphnia - *Daphnia magna*

5.7 mg/l [48 hours]

**Acute - EC50**Algae - *Pseudokirchneriella subcapitata*

8.1 mg/l [72 hours]

ethylbenzene

**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

3-aminomethyl-

3,5,5-trimethylcyclohexylamine

**Acute - LC50**

Fish

110 mg/l [96 hours]

**Acute - EC50**

OECD 202

Daphnia

23 mg/l [48 hours]

**Acute - EC50**

Crustaceans

388 mg/l [48 hours]

**Conclusion/Summary[Product]**

: Not available.

### Persistence/degradability

**Product/ingredient name****Result**

aminepoxyadduct

0% [28 days] - Not readily

**Conclusion/Summary[Product]**

: Not available.

| Product/ingredient name        | Aquatic half-life | Photolysis | Biodegradability |
|--------------------------------|-------------------|------------|------------------|
| xylene                         | -                 | -          | Readily          |
| aminepoxyadduct                | -                 | -          | Not readily      |
| ethylbenzene                   | -                 | -          | Readily          |
| benzyl alcohol                 | -                 | -          | Readily          |
| 3-aminomethyl-                 | -                 | -          | Not readily      |
| 3,5,5-trimethylcyclohexylamine | -                 | -          | Not readily      |

### Bioaccumulation/Accumulation

## Section 12. Ecological information

| Product/ingredient name                          | LogP <sub>ow</sub> | BCF         | Potential |
|--------------------------------------------------|--------------------|-------------|-----------|
| xylene                                           | 3.12               | 8.1 to 25.9 | Low       |
| ethylbenzene                                     | 3.6                | -           | Low       |
| benzyl alcohol                                   | 0.87               | <100        | Low       |
| 3-aminomethyl-<br>3,5,5-trimethylcyclohexylamine | 0.99               | -           | Low       |
| 2,4,6-tris<br>(dimethylaminomethyl)<br>phenol    | 0.219              | -           | 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 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

|                                   | China                                                                                        | ADR/RID                                                                                                                                                                             | IMDG                                                                                                                                                                                  | IATA                                                                                           |
|-----------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>UN number</b>                  | UN3470                                                                                       | UN3470                                                                                                                                                                              | UN3470                                                                                                                                                                                | UN3470                                                                                         |
| <b>UN proper shipping name</b>    | Paint related material, corrosive, flammable                                                 | Paint related material, corrosive, flammable                                                                                                                                        | Paint related material, corrosive, flammable. Marine pollutant (amineepoxyadduct)                                                                                                     | Paint related material, corrosive, flammable                                                   |
| <b>Transport hazard class(es)</b> | 8 (3)<br> | 8 (3)<br><br> | 8 (3)<br><br> | 8 (3)<br> |
| <b>Packing group</b>              | II                                                                                           | II                                                                                                                                                                                  | II                                                                                                                                                                                    | II                                                                                             |
|                                   |                                                                                              |                                                                                                                                                                                     |                                                                                                                                                                                       |                                                                                                |

## Section 14. Transport information

|                              |                                                                    |      |      |                                                                    |
|------------------------------|--------------------------------------------------------------------|------|------|--------------------------------------------------------------------|
| <b>Environmental hazards</b> | Yes. The environmentally hazardous substance mark is not required. | Yes. | 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-C  
Segregation Group: 18- Alkalis
- 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** 83  
**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.

### 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.
- Incompatible materials** : Reactive or incompatible with the following materials:  
oxidising materials

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

## Section 15. Regulatory information

**Safety, health and environmental regulations specific for the product:**

### Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Regulations on the Control over Safety of Dangerous Chemicals  
Measures for Environmental Management of New Chemical Substances  
Law of the People's Republic of China on the Prevention and Control of Environment Pollution Caused by Solid Wastes  
Safety regulations for the use of chemicals in the workplace  
General Rule for Classification and Hazard Communication of Chemicals  
Classification and code of dangerous goods

### List of Goods banned for Importing

None of the components are listed.

### Drug Precursors Requiring an Import/Export License

None of the components are listed.

### Inventory of Hazardous Chemicals

| Ingredient name                              | CAS number | Status | Reference number |
|----------------------------------------------|------------|--------|------------------|
| Barrier 80 XT Comp B                         | -          | Listed | 2828             |
| xylene                                       | 1330-20-7  | Listed | 358              |
| ethylbenzene                                 | 100-41-4   | Listed | 2566             |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2  | Listed | 3                |

### List of Explosive Precursors

## Section 15. Regulatory information

None of the components are listed.

### [List of Goods banned for Exporting](#)

None of the components are listed.

### [List of Toxic Chemicals Severely Restricted for Importing & Exporting by China](#)

None of the components are listed.

### [Catalogue and classification of drug precursor chemicals](#)

None of the components are listed.

### [Inventory of Highly Toxic Articles](#)

None of the components are listed.

### [Catalogue of Hazardous Chemicals of Priority Management](#)

None of the components are listed.

### [Catalogue of Occupational Disease Hazard Factors - Dust](#)

None of the components are listed.

### [Catalogue of Occupational Disease Hazard Factors - Chemical Factors](#)

| Ingredient name | Status |
|-----------------|--------|
| xylene          | Listed |
| ethylbenzene    | Listed |

### [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](#)

**Date of printing** : 31.07.2026

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**Version** : 1

### [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

## Section 16. Other information

SGG = Segregation Group  
UN = United Nations

### Procedure used to derive the classification

| Classification                                                                               | Justification         |
|----------------------------------------------------------------------------------------------|-----------------------|
| FLAMMABLE LIQUIDS - Category 3                                                               | On basis of test data |
| ACUTE TOXICITY (oral) - Category 4                                                           | Calculation method    |
| ACUTE TOXICITY (dermal) - Category 5                                                         | Calculation method    |
| SKIN CORROSION/IRRITATION - Category 1B                                                      | Calculation method    |
| SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                                               | Calculation method    |
| SKIN SENSITISATION - Category 1                                                              | Calculation method    |
| CARCINOGENICITY - Category 2                                                                 | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2                              | Calculation method    |
| SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3                                               | Calculation method    |
| LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                                              | 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.

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