Marathon Comp A

Section 1. Identification

<table>
<thead>
<tr>
<th>GHS product identifier</th>
<th>Marathon Comp A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>574</td>
</tr>
<tr>
<td>Product description</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other means of</td>
<td>Not available.</td>
</tr>
<tr>
<td>identification</td>
<td></td>
</tr>
<tr>
<td>Product type</td>
<td>Liquid.</td>
</tr>
</tbody>
</table>
| Supplier's details     | Jotun Paints, Inc.  
                        | 9203 Highway 23  
                        | Belle Chasse, LA 70037  
                        | Telephone: (800) 229-3538 or 
                        | +1 504-394-3538  
                        | SDSJotun@jotun.com |
| Emergency telephone     | 1-800-424-9300  
                        | (Staffed 24/7)   |
| number (with hours of   |                 |
| operation)             |                 |

Section 2. Hazards identification

<table>
<thead>
<tr>
<th>OSHA/HCS status</th>
<th>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</th>
</tr>
</thead>
</table>
| Classification of the  | FLAMMABLE LIQUIDS - Category 3  
                        | SKIN IRRITATION - Category 2  
                        | SERIOUS EYE DAMAGE - Category 1  
                        | SKIN SENSITIZATION - Category 1  
                        | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2  
                        | AQUATIC HAZARD (LONG-TERM) - Category 2 |
| substance or mixture    |                                                                  |
| GHS label elements      |                                                                  |
| Hazard pictograms       |                                                                  |

Signal word : Danger.

Hazard statements : H226 - Flammable liquid and vapor.  
                   H318 - Causes serious eye damage.  
                   H315 - Causes skin irritation.  
                   H317 - May cause an allergic skin reaction.  
                   H373 - May cause damage to organs through prolonged or repeated exposure. (hearing organs)  
                   H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

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Section 2. Hazards identification

**Prevention**
- P280 - Wear protective gloves. Wear eye or face protection.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 - Keep container tightly closed.
- P273 - Avoid release to the environment.
- P260 - Do not breathe vapor or spray.
- P264 - Wash hands thoroughly after handling.
- P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.

**Response**
- P391 - Collect spillage.
- P314 - Get medical attention if you feel unwell.
- P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.
- P333 + P313 - If skin irritation or rash occurs: Get medical attention.
- 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 physician.

**Storage**
- P403 - Store in a well-ventilated place.
- P235 - Keep cool.

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

**Hazards not otherwise classified**
- None known.

Section 3. Composition/information on ingredients

**Substance/mixture**
- Mixture

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

**CAS number/other identifiers**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (MW ≤ 700)</td>
<td>≥25 - ≤50</td>
<td>1675-54-3</td>
</tr>
<tr>
<td>epoxy resin (MW 700-1200)</td>
<td>≤10</td>
<td>25036-25-3</td>
</tr>
<tr>
<td>xylene</td>
<td>≤10</td>
<td>1330-20-7</td>
</tr>
<tr>
<td>butan-1-ol</td>
<td>≤5</td>
<td>71-36-3</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>≤3</td>
<td>100-41-4</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

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Section 4. First aid measures

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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

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)

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Section 5. Fire-fighting measures

**Extinguishing media**
- Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.
- 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 toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products**
- Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - metal oxide/oxides

**Special protective actions for fire-fighters**
- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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

Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**
- No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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. Collect spillage.

**Methods and materials for containment and cleaning up**

**Small spill**
- Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill**
- Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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Section 7. Handling and storage

**Precautions for safe handling**

**Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

Section 8. Exposure controls/personal protection

**Control parameters**

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (MW ≤ 700)</td>
<td>None</td>
</tr>
<tr>
<td>epoxy resin (MW 700-1200)</td>
<td>None</td>
</tr>
</tbody>
</table>
| xylene | ACGIH TLV (United States, 3/2018).  
STEL: 651 mg/m³ 15 minutes.  
STEL: 150 ppm 15 minutes.  
TWA: 434 mg/m³ 8 hours.  
TWA: 100 ppm 8 hours.  
OSHA PEL (United States, 5/2018).  
TWA: 435 mg/m³ 8 hours.  
TWA: 100 ppm 8 hours.  
STEL: 655 mg/m³ 15 minutes.  
STEL: 150 ppm 15 minutes.  
TWA: 435 mg/m³ 8 hours.  
TWA: 100 ppm 8 hours.  |
| butan-1-ol | ACGIH TLV (United States, 3/2018).  
TWA: 20 ppm 8 hours.  
NIOSH REL (United States, 10/2016).  
Absorbed through skin.  
CEIL: 150 mg/m³  
CEIL: 50 ppm  
OSHA PEL (United States, 5/2018).  
TWA: 300 mg/m³ 8 hours.  
TWA: 100 ppm 8 hours.  
Absorbed through skin.  
CEIL: 150 mg/m³ |

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Section 8. Exposure controls/personal protection

ethylbenzene

<table>
<thead>
<tr>
<th>CEIL: 50 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA: 100 ppm 8 hours.</td>
</tr>
<tr>
<td>TWA: 435 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>STEL: 125 ppm 15 minutes.</td>
</tr>
<tr>
<td>STEL: 545 mg/m³ 15 minutes.</td>
</tr>
<tr>
<td>NIOSH REL (United States, 10/2016).</td>
</tr>
<tr>
<td>TWA: 100 ppm 10 hours.</td>
</tr>
<tr>
<td>TWA: 435 mg/m³ 10 hours.</td>
</tr>
<tr>
<td>STEL: 125 ppm 15 minutes.</td>
</tr>
<tr>
<td>STEL: 545 mg/m³ 15 minutes.</td>
</tr>
<tr>
<td>OSHA PEL (United States, 5/2018).</td>
</tr>
<tr>
<td>TWA: 100 ppm 8 hours.</td>
</tr>
<tr>
<td>TWA: 435 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>ACGIH TLV (United States, 3/2018). Notes: K</td>
</tr>
<tr>
<td>TWA: 20 ppm 8 hours. Form:</td>
</tr>
</tbody>
</table>

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

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
Section 8. Exposure controls/personal protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Training is required to ensure proper fitting, use of the respirator and training of the user in the use of the respirator. Respirators should be used according to the respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: 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: Various colors.

Odor: Characteristic.

Odor threshold: Not applicable.

pH: Not applicable.

Melting point: Not applicable.

Boiling point: Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average: 248°C (478.4°F)

Flash point: Closed cup: 30°C (86°F)

Evaporation rate: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.68 compared with butyl acetate

Flammability (solid, gas): Not applicable.

Lower and upper explosive (flammable) limits: 0.8 - 11.3%

Vapor pressure: Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.23 kPa (1.73 mm Hg) (at 20°C)

Vapor density: Highest known value: 11.7 (Air = 1) (epoxy resin (MW ≤ 700)). Weighted average: 9.66 (Air = 1)

Relative density: 1.364 to 1.491 g/cm³ 11.38 to 12.44 pounds/gallon

Solubility: Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water: Not available.


Decomposition temperature: Not available.

Viscosity: Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 mm²/s)
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: Reactive or incompatible with the following materials: oxidizing materials

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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (MW ≤ 700)</td>
<td>LD50 Dermal 20 g/kg</td>
<td>Rabbit</td>
<td>20 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral 15600 mg/kg</td>
<td>Mouse</td>
<td>15600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>xylene</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>20 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral 4300 mg/kg</td>
<td>Rat</td>
<td>4300 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>butan-1-ol</td>
<td>TDLo Dermal 790 mg/kg</td>
<td>Rat</td>
<td>790 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat - Male</td>
<td>17.8 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal &gt;5000 mg/kg</td>
<td>Rabbit</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral 3500 mg/kg</td>
<td>Rat</td>
<td>3500 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (MW ≤ 700)</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>epoxy resin (MW 700-1200)</td>
<td>Skin - Mild irritant</td>
<td>Mammal - species unspecified</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Mild irritant</td>
<td>Mammal - species unspecified</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>xylene</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>87 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rat</td>
<td>-</td>
<td>8 hours 60 microliters</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitization

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Route of exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (MW ≤ 700)</td>
<td>skin</td>
<td>Mammal - species unspecified</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>epoxy resin (MW 700-1200)</td>
<td>skin</td>
<td>Mammal - species unspecified</td>
<td>Sensitizing</td>
</tr>
</tbody>
</table>

Mutagenicity
Not available.

Carcinogenicity
Not available.

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (MW ≤ 700)</td>
<td>-</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>xylene</td>
<td>-</td>
<td>3</td>
<td>-</td>
</tr>
</tbody>
</table>

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Section 11. Toxicological information

**Reproductive toxicity**
Not available.

**Teratogenicity**
Not available.

**Specific target organ toxicity (single exposure)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>butan-1-ol</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
</tbody>
</table>

**Specific target organ toxicity (repeated exposure)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylbenzene</td>
<td>Category 2</td>
<td>Not determined</td>
<td>hearing organs</td>
</tr>
</tbody>
</table>

**Aspiration hazard**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>ASPIRATION HAZARD - Category 1</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>ASPIRATION HAZARD - Category 1</td>
</tr>
</tbody>
</table>

**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.

**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.
Section 11. Toxicological information

Potential chronic health effects
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 : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>14269.41 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>18052.39 mg/kg</td>
</tr>
<tr>
<td>Inhalation (vapors)</td>
<td>238.79 mg/l</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (MW ≤ 700)</td>
<td>Acute EC50 1.4 mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3.1 mg/l</td>
<td>Fish - pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.3 mg/l</td>
<td>Fish</td>
<td>21 days</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>Acute EC50 7.2 mg/l</td>
<td>Algae</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 2.93 mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 4.2 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>xylene</td>
<td>Acute EC50 7.2 mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>Acute EC50 2.93 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (MW ≤ 700)</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
<tr>
<td>xylene</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (MW ≤ 700)</td>
<td>2.64 to 3.78</td>
<td>31</td>
<td>low</td>
</tr>
<tr>
<td>xylene</td>
<td>3.12</td>
<td>8.1 to 25.9</td>
<td>low</td>
</tr>
<tr>
<td>butan-1-ol</td>
<td>1</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>3.6</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

Mobility in soil

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

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

Date of issue : 21.08.2020
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 sewers.

**United States - RCRA Toxic hazardous waste "U" List**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Status</th>
<th>Reference number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Listed</td>
<td>U239</td>
</tr>
<tr>
<td>1-Butanol (I); n-Butyl alcohol (I)</td>
<td>71-36-3</td>
<td>Listed</td>
<td>U031</td>
</tr>
</tbody>
</table>

Section 14. Transport information

<table>
<thead>
<tr>
<th>UN number</th>
<th>DOT Classification</th>
<th>TDG Classification</th>
<th>Mexico Classification</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1263</td>
<td>UN1263</td>
<td>UN1263</td>
<td>UN1263</td>
<td>UN1263</td>
<td>UN1263</td>
<td>UN1263</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Paint</td>
<td>Paint</td>
<td>Paint</td>
<td>Paint</td>
<td>Paint</td>
<td>Paint</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Yes.</td>
<td>Yes.</td>
<td>Yes. The environmentally hazardous substance mark is not required.</td>
<td>Yes.</td>
<td>Yes.</td>
<td>Yes. The environmentally hazardous substance mark is not required.</td>
</tr>
</tbody>
</table>

**Additional information**

**DOT Classification**

This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. **Reportable quantity** 1641.1 lbs / 745.07 kg [137.88 gal / 521.94 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**TDG Classification**

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.

**Mexico Classification**

-
Section 14. Transport information

**ADR/RID**
- Tunnel restriction code: (D/E)
- Hazard identification number: 30

**IMDG**
- Emergency schedules (EmS): F-E, S-E
- Marine pollutant: Yes.

**IATA**
- The environmentally hazardous substance mark may appear if required by other transportation regulations.

**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.
- **Not available.**

**Transport in bulk according to Annex II of MARPOL and the IBC Code**
- **Not available.**

Section 15. Regulatory information

**U.S. Federal regulations**
- **Clean Water Act (CWA) 307**: ethylbenzene
- **Clean Water Act (CWA) 311**: xylene; ethylbenzene

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>6.0934</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>2.0311</td>
</tr>
<tr>
<td>glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>24.212</td>
</tr>
</tbody>
</table>

**Clean Air Act Section 602**
- **Class I Substances**: Not listed
- **Class II Substances**: Not listed

**DEA List I Chemicals (Precursor Chemicals)**
- **Not listed**

**DEA List II Chemicals (Essential Chemicals)**
- **Not listed**

**SARA 302/304**
- **Composition/information on ingredients**
  - No products were found.
  - **SARA 304 RQ**: Not applicable.

**SARA 311/312**
- **Classification**:
  - FLAMMABLE LIQUIDS - Category 3
  - SKIN IRRITATION - Category 2
  - SERIOUS EYE DAMAGE - Category 1
  - SKIN SENSITIZATION - Category 1
  - SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2

**Composition/information on ingredients**
## Section 15. Regulatory information

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (MW ≤ 700)</td>
<td>≥25 - ≤50</td>
<td>SKIN IRRITATION - Category 2&lt;br&gt; EYE IRRITATION - Category 2A&lt;br&gt; SKIN SENSITIZATION - Category 1B&lt;br&gt; SKIN IRRITATION - Category 2&lt;br&gt; EYE IRRITATION - Category 2A&lt;br&gt; SKIN SENSITIZATION - Category 1&lt;br&gt; EYE IRRITATION - Category 2A&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3&lt;br&gt; ASPIRATION HAZARD - Category 1&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3</td>
</tr>
<tr>
<td>epoxy resin (MW 700-1200)</td>
<td>≤10</td>
<td>SKIN IRRITATION - Category 2&lt;br&gt; EYE IRRITATION - Category 2A&lt;br&gt; SKIN SENSITIZATION - Category 1&lt;br&gt; EYE IRRITATION - Category 2A&lt;br&gt; SKIN SENSITIZATION - Category 1&lt;br&gt; EYE IRRITATION - Category 2A&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3&lt;br&gt; ASPIRATION HAZARD - Category 1&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3</td>
</tr>
<tr>
<td>xylene</td>
<td>≤10</td>
<td>FLAMMABLE LIQUIDS - Category 3&lt;br&gt; ACUTE TOXICITY (dermal) - Category 4&lt;br&gt; ACUTE TOXICITY (inhalation) - Category 4&lt;br&gt; SKIN IRRITATION - Category 2&lt;br&gt; EYE IRRITATION - Category 2A&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3&lt;br&gt; ASPIRATION HAZARD - Category 1&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3</td>
</tr>
<tr>
<td>butan-1-ol</td>
<td>≤5</td>
<td>FLAMMABLE LIQUIDS - Category 3&lt;br&gt; ACUTE TOXICITY (oral) - Category 4&lt;br&gt; SKIN IRRITATION - Category 2&lt;br&gt; EYE IRRITATION - Category 2A&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3&lt;br&gt; ASPIRATION HAZARD - Category 1&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>≤3</td>
<td>FLAMMABLE LIQUIDS - Category 2&lt;br&gt; ACUTE TOXICITY (inhalation) - Category 4&lt;br&gt; SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2&lt;br&gt; ASPIRATION HAZARD - Category 1</td>
</tr>
</tbody>
</table>

### SARA 313

<table>
<thead>
<tr>
<th>Form R - Reporting requirements</th>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplier notification</td>
<td>xylene</td>
<td>1330-20-7</td>
<td>≤10</td>
</tr>
<tr>
<td>butan-1-ol</td>
<td>71-36-3</td>
<td>≤5</td>
<td></td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>≤3</td>
<td></td>
</tr>
</tbody>
</table>

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

**Massachusetts**

The following components are listed: titanium dioxide; XYLENE; DIMETHYL BENZENE; ETHYL BENZENE; ETHYLBENZENE; FIBROUS GLASS; N-BUTYL ALCOHOL; 1-BUTANOL

**New York**

The following components are listed: Xylene mixed; Ethylbenzene; Butyl alcohol; 1-Butanol

**New Jersey**

The following components are listed: titanium dioxide; XYLENES; BENZENE, DIMETHYL-; ETHYL BENZENE; BENZENE, ETHYL-; n-BUTYL ALCOHOL; 1-BUTANOL

**Pennsylvania**

The following components are listed: titanium dioxide; BENZENE, DIMETHYL-; BENZENE, ETHYL-; 1-BUTANOL

### California Prop. 65

**WARNING:** This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>titanium dioxide</td>
<td>Yes.</td>
<td>No.</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### International regulations

**Date of issue**: 21.08.2020
Section 15. Regulatory information

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.

International lists

National inventory

Australia : Not determined.
Canada : Not determined.
China : Not determined.
Europe : Not determined.
Japan : Not determined.
Malaysia : Not determined.
New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.

Section 16. Other information

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 3, H226</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1, H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT RE 2, H373 (hearing organs)</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 2, H411</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

History

Date of printing : 21.08.2020
Date of issue/Date of revision : 21.08.2020
Date of previous issue : 23.05.2019
Version : 1.04

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
UN = United Nations

References : Not available.

Date of issue : 21.08.2020
Section 16. Other information

Notice to reader

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

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.