

## Hardtop Clear Comp B

| Section 1. Identification     |   |
|-------------------------------|---|
| Product name                  | : Hardtop Clear Comp B  |
| Product code                  | : 33862   |
| Product description           | : Hardener.   |
| Product type                  | : Liquid.   |
| Other means of identification | : Not available.  |
| Supplier's details            | : Jotun Paints Co LLC,<br>P.O.Box 672-C.P.O,<br>Postal Code - 111<br>Sultanate of Oman<br>Tel: 00968-626100<br>Fax:00968-626105<br>SDSJotun@jotun.com |
| Emergency telephone<br>number | : SHE Dept. Jotun AS, Norway<br>+47 33 45 70 00   |

## Section 2. Hazards identification

| : FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN CORROSION/IRRITATION - Category 3<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A   |
|---|
| SKIN SENSITISATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract<br>irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -<br>Category 3   |
|   |
|   |
| : Warning.  |
| <ul> <li>H226 - Flammable liquid and vapour.</li> <li>H316 - Causes mild skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H332 - Harmful if inhaled.</li> <li>H335 - May cause respiratory irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> </ul> |
|   |
| <ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P261 - Avoid breathing vapour.</li> </ul>  |
|   |

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|--|--------------|----------------|------|
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### Section 2. Hazards identification

| Response | <ul> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul> |
|----------|---|
|          | P337 + P313 - If eye irritation persists: Get medical advice or attention.  |
| Storage  | : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  |
| Disposal | <ul> <li>P501 - Dispose of contents and container in accordance with all local, regional,<br/>national and international regulations.</li> </ul>  |

Other hazards which do not : None known. result in classification

### Section 3. Composition/information on ingredients

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

| CAS number/other ide  | ntifiers          |                                     |                                    |
|---|-------------------|-------------------------------------|------------------------------------|
| CAS number  | : Not applicable. |                                     |                                    |
| EC number   | : Mixture.        |                                     |                                    |
| Product code  | : 33862           |                                     |                                    |
| Ingredient name   |                   | %                                   | CAS number                         |
| Hexamethylene diisocyanate, oligomers<br>n-butyl acetate<br>2-methoxy-1-methylethyl acetate |                   | ≥50 - ≤75<br>≥10 - ≤25<br>≥10 - ≤25 | 28182-81-2<br>123-86-4<br>108-65-6 |
| xylene<br>ethylbenzene  |                   | <10<br><10<br>≤3                    | 1330-20-7<br>100-41-4              |

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

### Section 4. First aid measures

| Ingestion             | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air<br>and keep at rest in a position comfortable for breathing. If material has been<br>swallowed and the exposed person is conscious, give small quantities of water to<br>drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not<br>induce vomiting unless directed to do so by medical personnel. If vomiting occurs,<br>the head should be kept low so that vomit does not enter the lungs. Get medical<br>attention. If necessary, call a poison center or physician. Never give anything by<br>mouth to an unconscious person. If unconscious, place in recovery position and get<br>medical attention immediately. Maintain an open airway. Loosen tight clothing such<br>as a collar, tie, belt or waistband. |
|-----------------------|---|
| Most important sympt  | oms/effects, acute and delayed  |
| Potential acute healt | <u>n effects</u>  |
| Eye contact           | : Causes serious eye irritation.  |
| Inhalation            | : Harmful if inhaled. May cause drowsiness or dizziness. May cause respiratory irritation.  |
| Skin contact          | : Causes mild skin irritation. May cause an allergic skin reaction.   |
| Ingestion             | : No known significant effects or critical hazards.   |
| Over-exposure signs   | /symptoms   |
| Eye contact           | : Adverse symptoms may include the following:   |

|              | pain or irritation<br>watering<br>redness   |
|--------------|---|
| Inhalation   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| Skin contact | : Adverse symptoms may include the following:<br>irritation<br>redness  |
| Ingestion    | : No specific data.   |

| 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.<br>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.<br>In a fire or if heated, a pressure increase will occur and the container may burst, with<br>the risk of a subsequent explosion.   |
|--|--|
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>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 | <ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained<br/>breathing apparatus (SCBA) with a full face-piece operated in positive pressure<br/>mode.</li> </ul>  |

### Section 6. Accidental release measures

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

| For non-emergency<br>personnel | :          | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Avoid breathing vapour or mist.<br>Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>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<br>and sewers. Inform the relevant authorities if the product has caused environmental<br>pollution (sewers, waterways, soil or air).   |
| Methods and material for cor   | <u>nta</u> | inment and cleaning up  |
| Small spill                    | :          | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.  |
| Large spill                    | :          | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for |

#### emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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) |
|---------------------|---|
|                     |   |

## Section 7. Handling and storage

|  | 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,<br>including any<br>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 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

#### 

| Ingredient name                     |   | Exposure limits   |  |  |
|-------------------------------------|---|---|--|--|
|                                     |   |   |  |  |
| n-butyl acetate<br>xylene           |   | ACGIH TLV (United States, 1/2021).<br>STEL: 150 ppm 15 minutes.<br>TWA: 50 ppm 8 hours.<br>ACGIH TLV (United States, 1/2021).<br>STEL: 651 mg/m <sup>3</sup> 15 minutes.<br>STEL: 150 ppm 15 minutes.   |  |  |
| ethylbenzene                        |   | TWA: 434 mg/m <sup>3</sup> 8 h<br>TWA: 100 ppm 8 hou<br><b>ACGIH TLV (United S</b><br><b>Notes: K</b><br>TWA: 20 ppm 8 hour   | ours.<br>urs.<br>States, 1/2021).                            |  |
| Appropriate engineering<br>controls | ventilation or other engine<br>contaminants below any re                            | entilation. Use process enclosures,<br>ering controls to keep worker expose<br>ecommended or statutory limits. The<br>pour or dust concentrations below a<br>of ventilation equipment.  | sure to airborne<br>ne engineering controls                  |  |
| Environmental exposure<br>controls  | they comply with the requi<br>cases, fume scrubbers, fil                            | Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels. |  |  |
| Individual protection meas          | sures   |   |  |  |
| Hygiene measures                    | eating, smoking and using<br>Appropriate techniques sh<br>Contaminated work clothir | d face thoroughly after handling ch<br>the lavatory and at the end of the<br>nould be used to remove potentially<br>ng should not be allowed out of the<br>ore reusing. Ensure that eyewash<br>vorkstation location.  | working period.<br>contaminated clothing.<br>workplace. Wash |  |
| Eye/face protection                 | indicates this is necessary<br>dusts. If contact is possib                          | 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.    |  |  |
| Skin protection                     |   |   |  |  |
|                                     |   |   |  |  |

## Section 8. Exposure controls/personal protection

| Hand protection        | <ul> <li>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.<br/>The breakthrough time must be greater than the end use time of the product.<br/>The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.<br/>Gloves should be replaced regularly and if there is any sign of damage to the glove material.</li> <li>Always ensure that gloves are free from defects and that they are stored and used correctly.</li> <li>The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.</li> <li>Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.</li> <li>Wear suitable gloves tested to EN374.</li> <li>Not recommended, gloves(breakthrough time) &lt; 1 hour: PE, neoprene</li> <li>May be used, gloves(breakthrough time) &gt; 8 hours: Viton®, nitrile rubber, butyl rubber, PVC</li> <li>Recommended, gloves(breakthrough time) &gt; 8 hours: 4H, Teflon, polyvinyl alcohol (PVA)</li> </ul> |
|------------------------|---|
| Body protection        | : Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity,<br>wear anti-static protective clothing. For the greatest protection from static<br>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 | : Self-contained respiratory equipment must be worn by spray operator, even when good ventilation is provided. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask.   |

## Section 9. Physical and chemical properties

| <u>Appearance</u>                            |  |
|--|--|
| Physical state                               | : Liquid.  |
| Colour                                       | : Colourless.  |
| Odour  | : Characteristic.  |
| Odour threshold                              | : Not applicable.  |
| рН   | : Not applicable.  |
| Melting point                                | : Not applicable.  |
| Boiling point                                | <ul> <li>Lowest known value: 126°C (258.8°F) (n-butyl acetate). Weighted average:<br/>134.93°C (274.9°F)</li> </ul>        |
| Flash point                                  | : Closed cup: 34°C (93.2°F)  |
| Evaporation rate                             | : Highest known value: 1 (n-butyl acetate) Weighted average: 0.73compared with butyl acetate                               |
| Flammability (solid, gas)                    | : Not applicable.  |
| Lower and upper explosive (flammable) limits | : 0.8 - 7.6%   |
| Vapour pressure                              | : Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 0.37 kPa (2.78 mm Hg) (at 20°C) |
| Vapour density                               | : Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 4.09 (Air = 1)                   |
| Density                                      | : 1.04 g/cm <sup>3</sup>   |
| Solubility                                   | : Insoluble in the following materials: cold water and hot water.  |
| Partition coefficient: n-<br>octanol/water   | : Not available.   |
| Date of issue/Date of revision               | : 23.12.2021 Date of previous issue : 23.12.2021 Version : 1.01 6/   |

### Section 9. Physical and chemical properties

| Auto-ignition temperature | : | Lowest known value: 333°C (631.4°F) (2-methoxy-1-methylethyl acetate). |
|---------------------------|---|--|
| Decomposition temperature | 1 | Not available.   |
| Viscosity                 | : | Kinematic (40°C): >0.205 cm²/s (>20.5 cSt)                             |
|                           |   |  |

## Section 10. Stability and reactivity

| Reactivity                         | No specific test data related to reactivity available for this product or its ingredients  | s. |
|------------------------------------|--|----|
| 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 pressurise, cut, well braze, solder, drill, grind or expose containers to heat or sources of ignition. | d, |
| Incompatible materials             | Reactive or incompatible with the following materials:<br>oxidising 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

| Product/ingredient name         | Result                 | Species    | Dose         | Exposure |
|---------------------------------|------------------------|------------|--------------|----------|
| n-butyl acetate                 | LC50 Inhalation Vapour | Rat        | >21.1 mg/l   | 4 hours  |
| -                               | LD50 Dermal            | Rabbit     | >17600 mg/kg | -        |
|                                 | LD50 Oral              | Rat        | 13100 mg/kg  | -        |
| 2-methoxy-1-methylethyl acetate | LD50 Dermal            | Rabbit     | >5 g/kg      | -        |
|                                 | LD50 Oral              | Rat        | 8532 mg/kg   | -        |
| xylene                          | LC50 Inhalation Vapour | Rat        | 20 mg/l      | 4 hours  |
|                                 | LD50 Oral              | Rat        | 4300 mg/kg   | -        |
|                                 | TDLo Dermal            | Rabbit     | 4300 mg/kg   | -        |
| ethylbenzene                    | LC50 Inhalation Vapour | Rat - Male | 17.8 mg/l    | 4 hours  |
|                                 | LD50 Dermal            | Rabbit     | >5000 mg/kg  | -        |
|                                 | LD50 Oral              | Rat        | 3500 mg/kg   | -        |

#### Irritation/Corrosion

| Product/ingredient name                  | Result   | Species                 | Score  | Exposure   | Observation |
|--|--|-------------------------|--------|--|-------------|
| Hexamethylene<br>diisocyanate, oligomers | Eyes - Moderate irritant   | Rabbit                  | -      | 100 mg   | -           |
| xylene                                   | Skin - Moderate irritant<br>Eyes - Mild irritant<br>Skin - Mild irritant | Rabbit<br>Rabbit<br>Rat | -<br>- | 500 mg<br>87 milligrams<br>8 hours 60<br>microliters | -<br>-<br>- |

#### **Sensitisation**

| •••••••••••••••••••••••••••••••••••••••  | Route of<br>exposure | Species                         | Result      |
|--|----------------------|---------------------------------|-------------|
| Hexamethylene<br>diisocyanate, oligomers | skin                 | Mammal - species<br>unspecified | Sensitising |

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

# Section 11. Toxicological information

#### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

| Name                                  | Category   | Route of exposure | Target organs                   |
|---------------------------------------|------------|-------------------|---------------------------------|
| Hexamethylene diisocyanate, oligomers | Category 3 | -                 | Respiratory tract irritation    |
| n-butyl acetate                       | Category 3 | -                 | Narcotic effects                |
| 2-methoxy-1-methylethyl acetate       | Category 3 | -                 | Narcotic effects                |
| xylene                                | Category 3 | -                 | Respiratory tract<br>irritation |

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

| Name         |            | Route of<br>exposure | Target organs  |
|--------------|------------|----------------------|----------------|
| ethylbenzene | Category 2 | -                    | hearing organs |

#### **Aspiration hazard**

| Name | Result   |
|------|--|
| 5    | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

| Information on likely routes of exposure | :         | Not available.  |
|--|-----------|---|
| Potential acute health effects           |           |   |
| Eye contact                              | 1         | Causes serious eye irritation.  |
| Inhalation                               | :         | Harmful if inhaled. May cause drowsiness or dizziness. May cause respiratory irritation.  |
| Skin contact                             | 1         | Causes mild skin irritation. May cause an allergic skin reaction.   |
| Ingestion                                | :         | No known significant effects or critical hazards.   |
| Symptoms related to the phy              | si        | cal, chemical and toxicological characteristics   |
| Eye contact                              | :         | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness  |
| Inhalation                               | :         | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| Skin contact                             | :         | Adverse symptoms may include the following:<br>irritation<br>redness  |
| Ingestion                                | ;         | No specific data.   |
| Delayed and immediate effec              | <u>ts</u> | as well as chronic effects from short and long-term exposure  |
| Short term exposure                      |           |   |
| Potential immediate effects              | :         | Not available.  |
| Potential delayed effects                | :         | Not available.  |
| Date of issue/Date of revision           |           | : 23.12.2021 Date of previous issue : 23.12.2021 Version : 1.01 8/11  |

## Section 11. Toxicological information

|                              | •   |
|------------------------------|---|
| <u>Long term exposure</u>    |   |
| Potential immediate effects  | : Not available.  |
| Potential delayed effects    | : Not available.  |
| Potential chronic health eff | iects   |
| Not available.               |   |
| General                      | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity              | : No known significant effects or critical hazards.   |
| Mutagenicity                 | : No known significant effects or critical hazards.   |
| Teratogenicity               | : No known significant effects or critical hazards.   |
| <b>Developmental effects</b> | : No known significant effects or critical hazards.   |
| Fertility effects            | : No known significant effects or critical hazards.   |
|                              |   |

#### Numerical measures of toxicity

#### Acute toxicity estimates

| Route                        | ATE value      |
|------------------------------|----------------|
| Dermal                       | 13861.65 mg/kg |
| Inhalation (vapours)         | 183.36 mg/l    |
| Inhalation (dusts and mists) | 2.37 mg/l      |

## Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name | Result  | Species   | Exposure                                     |
|-------------------------|---|---|--|
| xylene                  | Acute LC50 8500 µg/l Marine water   | Crustaceans - Palaemonetes pugio  | 48 hours                                     |
| ethylbenzene            | Acute LC50 13400 μg/l Fresh water<br>Acute EC50 7700 μg/l Marine water<br>Acute EC50 2.93 mg/l<br>Acute LC50 4.2 mg/l | Fish - Pimephales promelas<br>Algae - Skeletonema costatum<br>Daphnia<br>Fish | 96 hours<br>96 hours<br>48 hours<br>96 hours |

#### Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| xylene                  | -                 |            | Readily          |
| ethylbenzene            | -                 | -          | Readily          |

#### **Bioaccumulative potential**

| Product/ingredient name                               | LogPow      | BCF              | Potential  |
|---|-------------|------------------|------------|
| Hexamethylene diisocyanate, oligomers                 | 5.54        | 367.7            | low        |
| n-butyl acetate<br>2-methoxy-1-methylethyl<br>acetate | 2.3<br>1.2  | -                | low<br>low |
| xylene<br>ethylbenzene                                | 3.12<br>3.6 | 8.1 to 25.9<br>- | low<br>low |

Mobility in soil Soil/water partition coefficient (Koc)

: Not available.

Date of issue/Date of revision

### Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** The generation of waste should be avoided or minimised wherever possible. 2 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 nonrecyclable 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

|                               | ADR/RID | IMDG                            | IATA   |
|-------------------------------|---------|---------------------------------|--------|
| UN number                     | UN1263  | UN1263                          | UN1263 |
| UN proper<br>shipping name    | Paint   | Paint                           | Paint  |
| Transport hazard<br>class(es) | 3       | 3                               | 3      |
| Packing group                 | III     | III                             | Ш      |
| Environmental<br>hazards      | No.     | No.                             | No.    |
| Additional information        | -       | Emergency schedules F-E,<br>S-E | -      |

| Additional information       |   |   |
|------------------------------|---|---|
| ADR/RID                      | : | <u>Hazard identification number</u> 30<br><u>Tunnel code</u> (D/E)  |
| IMDG                         | : | <u>Emergency schedules</u> F-E, <u>S-E</u>  |
| Special precautions for user | : | <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |

Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

#### Safety, health and environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

#### 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.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### Section 16. Other information

| <u>History</u>                 |   |
|--------------------------------|---|
| Date of printing               | : 23.12.2021  |
| Date of issue/Date of revision | : 23.12.2021  |
| Date of previous issue         | : 23.12.2021  |
| Version                        | : 1.01  |
| Key to abbreviations           | <ul> <li>ATE = Acute Toxicity Estimate<br/>BCF = Bioconcentration Factor<br/>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br/>IATA = International Air Transport Association<br/>IBC = International Air Transport Association<br/>IBC = International Maritime Dangerous Goods<br/>LogPow = logarithm of the octanol/water partition coefficient<br/>MARPOL = International Convention for the Prevention of Pollution From Ships,<br/>1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br/>UN = United Nations</li> </ul> |
| References                     | : Not available.  |

✓ Indicates information that has changed from previously issued version.

#### 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.