

# Jotatemp 540 Zinc Comp A

| Section 1. Identification     |                                                                                                                                                      |  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Product name                  | : Jotatemp 540 Zinc Comp A                                                                                                                           |  |
| Product code                  | : 36842                                                                                                                                              |  |
| Product description           | : Paint.                                                                                                                                             |  |
| Product type                  | : Liquid.                                                                                                                                            |  |
| Other means of identification | : Not available.                                                                                                                                     |  |
| Supplier's details            | : Jotun Saudia Co Ltd.<br>P.O. Box 34698 Jeddah 21478<br>Kingdom of Saudi Arabia<br>Tel: +966 2 6350535<br>Fax: +966 2 6362483<br>SDSJotun@jotun.com |  |
| Emergency telephone<br>number | : SHE Dept. Jotun AS, Norway<br>+47 33 45 70 00                                                                                                      |  |

# Section 2. Hazards identification

| Classification of the substance or mixture | : FLAMMABLE LIQUIDS - Category 2<br>SKIN CORROSION/IRRITATION - Category 3<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A<br>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                                |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHS label elements                         |                                                                                                                                                                                                                                                                   |
| Hazard pictograms                          |                                                                                                                                                                                                                                                                   |
| Signal word                                | : Danger.                                                                                                                                                                                                                                                         |
| Hazard statements                          | <ul> <li>H225 - Highly flammable liquid and vapour.</li> <li>H316 - Causes mild skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>                                     |
| Precautionary statements                   |                                                                                                                                                                                                                                                                   |
| Prevention                                 | <ul> <li>P280 - 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>P273 - Avoid release to the environment.</li> </ul>                                          |
| Response                                   | <ul> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.<br/>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul> |
| Storage                                    | : Not applicable.                                                                                                                                                                                                                                                 |
| Disposal                                   | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                                                        |

### Section 2. Hazards identification

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

### Section 3. Composition/information on ingredients

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

| <b>CAS number/other identifiers</b> |   |                 |
|-------------------------------------|---|-----------------|
| CAS number                          | : | Not applicable. |
| EC number                           | : | Mixture.        |
| Product code                        | ; | 36842           |

| Ingredient name     | %         | CAS number |
|---------------------|-----------|------------|
| ethanol             | ≥10 - ≤25 | 64-17-5    |
| 2-butoxyethanol     | <10       | 111-76-2   |
| tetraethyl silicate | ≤5        | 78-10-4    |
| propan-2-ol         | ≤5        | 67-63-0    |
| zinc chloride       | <1        | 7646-85-7  |

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

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

### Section 4. First aid measures

#### Description of necessary first aid measures

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

| Most important symptoms        | s/effe      | cts, acute and delayed                 |             |                |      |
|--------------------------------|-------------|----------------------------------------|-------------|----------------|------|
| Potential acute health eff     | <u>ects</u> |                                        |             |                |      |
| Eye contact                    | :           | Causes serious eye irritation.         |             |                |      |
| Inhalation                     | :           | No known significant effects or critic | al hazards. |                |      |
| Skin contact                   | :           | Causes mild skin irritation.           |             |                |      |
| Ingestion                      | :           | No known significant effects or critic | al hazards. |                |      |
| Date of issue/Date of revision |             | : 05.04.2022 Date of previous issue    | :05.04.2022 | Version : 1.01 | 2/11 |

### Section 4. First aid measures

| Over-exposure signs/sym    | <u>otoms</u>                                                                                                                                                               |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact                | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness                                                                                 |
| Inhalation                 | : No specific data.                                                                                                                                                        |
| Skin contact               | : Adverse symptoms may include the following:<br>irritation<br>redness                                                                                                     |
| Ingestion                  | : No specific data.                                                                                                                                                        |
| Indication of immediate me | dical attention and special treatment needed, if necessary                                                                                                                 |
| Notes to physician         | <ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large<br/>quantities have been ingested or inhaled.</li> </ul>                          |
| Specific treatments        | : No specific treatment.                                                                                                                                                   |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

#### See toxicological information (Section 11)

### Section 5. Firefighting measures

| Extinguishing media                            |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.                                                                                                                                                                                                                                                                                                                                                              |
| Unsuitable extinguishing media                 | : Do not use water jet.                                                                                                                                                                                                                                                                                                                                                                                                       |
| Specific hazards arising from the chemical     | : Highly 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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>metal oxide/oxides                                                                                                                                                                                                                                                                                                      |
| Special protective actions for fire-fighters   | <ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if<br/>there is a fire. No action shall be taken involving any personal risk or without<br/>suitable training. Move containers from fire area if this can be done without risk.<br/>Use water spray to keep fire-exposed containers cool.</li> </ul>                                                                            |
| 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 : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". D

| Date of issue/Date of revision | :05.04.2022 | Date of previous issue | :05.04.2022 | Version : 1.01 | 3/11 | 1 |
|--------------------------------|-------------|------------------------|-------------|----------------|------|---|
|--------------------------------|-------------|------------------------|-------------|----------------|------|---|

### Section 6. Accidental release measures

| 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.                                   |

#### Methods and material for containment and cleaning up **Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, 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). Do not ingest.<br>Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid<br>release to the environment. Use only with adequate ventilation. Wear appropriate<br>respirator when ventilation is inadequate. Do not enter storage areas and confined<br>spaces unless adequately ventilated. Keep in the original container or an approved<br>alternative made from a compatible material, kept tightly closed when not in use.<br>Store and use away from heat, sparks, open flame or any other ignition source. Use<br>explosion-proof electrical (ventilating, lighting and material handling) equipment.<br>Use only non-sparking tools. Take precautionary measures against electrostatic<br>discharges. Empty containers retain product residue and can be hazardous. Do not<br>reuse container. |
| Advice on general<br>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. 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

## Section 8. Exposure controls/personal protection

| Ingredient name                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                      | Exposure limits                                                                                                                                                                                                                                |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ethanol                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                      | ACGIH TLV (United States, 1/2021).<br>STEL: 1000 ppm 15 minutes.                                                                                                                                                                               |  |
| 2-butoxyethanol                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                      | ACGIH TLV (United States, 1/2021).<br>TWA: 20 ppm 8 hours.                                                                                                                                                                                     |  |
| tetraethyl silicate                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                      | ACGIH TLV (United States, 1/2021).<br>TWA: 85 mg/m <sup>3</sup> 8 hours.<br>TWA: 10 ppm 8 hours.                                                                                                                                               |  |
| propan-2-ol                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      | ACGIH TLV (United States, 1/2021).<br>TWA: 200 ppm 8 hours.<br>STEL: 400 ppm 15 minutes.                                                                                                                                                       |  |
| zinc chloride                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                      | ACGIH TLV (United States, 1/2021).<br>TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Fume<br>STEL: 2 mg/m <sup>3</sup> 15 minutes. Form: Fume                                                                                                         |  |
| Appropriate engineering<br>controls                                                                                                                                                                                                                                                                                                                                     | ventilation or other engineering<br>contaminants below any recom<br>also need to keep gas, vapour<br>limits. Use explosion-proof ver |                                                                                                                                                                                                                                                |  |
| <b>Environmental exposure</b><br><b>controls</b><br>: Emissions from ventilation or work process equipment should be checked to<br>they comply with the requirements of environmental protection legislation. In<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels. |                                                                                                                                      |                                                                                                                                                                                                                                                |  |
| Individual protection measure                                                                                                                                                                                                                                                                                                                                           | ures                                                                                                                                 |                                                                                                                                                                                                                                                |  |
| Hygiene measures                                                                                                                                                                                                                                                                                                                                                        | eating, smoking and using the<br>Appropriate techniques should                                                                       | ce thoroughly after handling chemical products, before<br>lavatory and at the end of the working period.<br>be used to remove potentially contaminated clothing.<br>efore reusing. Ensure that eyewash stations and<br>e workstation location. |  |
| Eye/face protection                                                                                                                                                                                                                                                                                                                                                     | indicates this is necessary to a dusts. If contact is possible, th                                                                   | N 166 should be used when a risk assessment void exposure to liquid splashes, mists, gases or le following protection should be worn, unless the degree of protection: chemical splash goggles.                                                |  |
| Skin protection                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                      |                                                                                                                                                                                                                                                |  |
| Hand protection                                                                                                                                                                                                                                                                                                                                                         | resistance to any individual or o<br>The breakthrough time must be<br>The instructions and informatic                                | e greater than the end use time of the product.<br>on provided by the glove manufacturer on use,                                                                                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                         | material.                                                                                                                            | acement must be followed.<br>ularly and if there is any sign of damage to the glove<br>free from defects and that they are stored and used                                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                         | damage and poor maintenance                                                                                                          | ess of the glove may be reduced by physical/chemica<br>e.<br>otect the exposed areas of the skin but should not be                                                                                                                             |  |
|                                                                                                                                                                                                                                                                                                                                                                         | applied once exposure has occ<br>Wear suitable gloves tested to                                                                      | curred.                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                         | Recommended, gloves(breaktl<br>4H, CPF 3, Responder                                                                                  | hrough time) > 8 hours: Saranex, butyl rubber, Viton®<br>bugh time) 4 - 8 hours: nitrile rubber, neoprene, Teflon                                                                                                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                         | PE<br>Not recommended, gloves(bre<br>(PVA)                                                                                           | akthrough time) < 1 hour: PVC, polyvinyl alcohol                                                                                                                                                                                               |  |

### Section 8. Exposure controls/personal protection

| 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  | <ul> <li>Appropriate footwear and any additional skin protection measures should be<br/>selected based on the task being performed and the risks involved and should be<br/>approved by a specialist before handling this product.</li> </ul>                                                                                                                                                                                 |
| Respiratory protection | : If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387(as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.                               |

# Section 9. Physical and chemical properties

| <u>Appearance</u>                            |                                                                                                           |            |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------|
| Physical state                               | Liquid.                                                                                                   |            |
| Colour                                       | Blue.                                                                                                     |            |
| Odour                                        | Characteristic.                                                                                           |            |
| Odour threshold                              | Not applicable.                                                                                           |            |
| рН                                           | Not applicable.                                                                                           |            |
| Melting point                                | Not applicable.                                                                                           |            |
| Boiling point                                | >36°C (>96.8°F)                                                                                           |            |
| Flash point                                  | Closed cup: 19°C (66.2°F)                                                                                 |            |
| Evaporation rate                             | Highest known value: 1.7 (ethanol) Weighted average: 0.98compared w acetate                               | ith butyl  |
| Flammability (solid, gas)                    | Not applicable.                                                                                           |            |
| Lower and upper explosive (flammable) limits | 1.1 - 23%                                                                                                 |            |
| Vapour pressure                              | Highest known value: 5.7 kPa (43 mm Hg) (at 20°C) (ethanol).  Weighteo<br>3.52 kPa (26.4 mm Hg) (at 20°C) | d average: |
| Vapour density                               | Highest known value: 7.22 (Air = 1) (tetraethyl silicate). Weighted avera<br>(Air = 1)                    | age: 3.35  |
| Density                                      | 1.194 g/cm³                                                                                               |            |
| Solubility                                   | Insoluble in the following materials: cold water and hot water.                                           |            |
| Partition coefficient: n-<br>octanol/water   | Not available.                                                                                            |            |
| Auto-ignition temperature                    | Lowest known value: 207°C (404.6°F) (dipropylene glycol methyl ether).                                    |            |
| Decomposition temperature                    | Not available.                                                                                            |            |
| Viscosity                                    | Kinematic (room temperature): 66.9 mm²/s (66.9 cSt)<br>Kinematic (40°C): >20.5 mm²/s (>20.5 cSt)          |            |

# Section 10. Stability and reactivity

| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.                                                                              |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical stability                 | : The product is stable.                                                                                                                                                  |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                         |
| Conditions to avoid                | : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| 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.                                                                    |
| Date of issue/Date of revision     | : 05.04.2022 Date of previous issue : 05.04.2022 Version : 1.01 6/1                                                                                                       |

Date of issue/Date of revision : 05.04.2022 Date of previous issue :05.04.2022 Version : 1.01

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                 | Species      | Dose                     | Exposure |
|-------------------------|------------------------|--------------|--------------------------|----------|
| ethanol                 | LC50 Inhalation Vapour | Rat          | 124700 mg/m <sup>3</sup> | 4 hours  |
| 2-butoxyethanol         | LD50 Oral              | Guinea pig - | 1414 mg/kg               | -        |
|                         |                        | Male, Female |                          |          |
|                         | LD50 Oral              | Rat - Male,  | 1300 mg/kg               | -        |
|                         |                        | Female       |                          |          |
| propan-2-ol             | LD50 Dermal            | Rabbit       | 12800 mg/kg              | -        |
|                         | LD50 Oral              | Rat          | 5000 mg/kg               | -        |
| zinc chloride           | LD50 Oral              | Rat          | 350 mg/kg                | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species                            | Score | Exposure                   | Observation |
|-------------------------|--------------------------|------------------------------------|-------|----------------------------|-------------|
| ethanol                 | Eyes - Moderate irritant | Rabbit                             | -     | 100<br>microliters         | -           |
|                         | Skin - Mild irritant     | Rabbit                             | -     | 400<br>milligrams          | -           |
| 2-butoxyethanol         | Eyes - Moderate irritant | Rabbit                             | -     | 24 hours 100<br>mg         | -           |
|                         | Skin - Mild irritant     | Rabbit                             | -     | 500 mg                     | -           |
| tetraethyl silicate     | Eyes - Mild irritant     | Mammal -<br>species<br>unspecified | -     | -                          | -           |
| propan-2-ol             | Eyes - Moderate irritant | Rabbit                             | -     | 24 hours 100<br>milligrams | -           |
|                         | Skin - Mild irritant     | Rabbit                             | -     | 500<br>milligrams          | -           |
| zinc chloride           | Skin - Severe irritant   | Rabbit                             | -     | 120 hours 1<br>Percent     | -           |

#### **Sensitisation**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

### Teratogenicity

#### Not available.

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

| Name                | • •        | Route of exposure | Target organs                   |
|---------------------|------------|-------------------|---------------------------------|
| tetraethyl silicate | Category 3 | -                 | Respiratory tract<br>irritation |
| propan-2-ol         | Category 3 | -                 | Narcotic effects                |
| zinc chloride       | Category 3 | -                 | Respiratory tract<br>irritation |

Specific target organ toxicity (repeated exposure)

#### Not available.

#### Aspiration hazard

Not available.

# Section 11. Toxicological information

| Information on likely routes of exposure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | :   | Not available.                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------|
| Potential acute health effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                                                                          |
| Eye contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | :   | Causes serious eye irritation.                                                           |
| Inhalation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | :   | No known significant effects or critical hazards.                                        |
| Skin contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | :   | Causes mild skin irritation.                                                             |
| Ingestion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | :   | No known significant effects or critical hazards.                                        |
| Symptoms related to the physical sector of th | sic | al, chemical and toxicological characteristics                                           |
| Eye contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | :   | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
| Inhalation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1   | No specific data.                                                                        |
| Skin contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | :   | Adverse symptoms may include the following:<br>irritation<br>redness                     |
| Ingestion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | :   | No specific data.                                                                        |
| Delayed and immediate effect                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ts  | as well as chronic effects from short and long-term exposure                             |
| <u>Short term exposure</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                                                                          |
| Potential immediate<br>effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1   | Not available.                                                                           |
| Potential delayed effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1   | Not available.                                                                           |
| Long term exposure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |                                                                                          |
| Potential immediate<br>effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1   | Not available.                                                                           |
| Potential delayed effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1   | Not available.                                                                           |
| Potential chronic health effe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ct  | <u>s</u>                                                                                 |
| Not available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                                                          |

Not available.

| General               | : No known significant effects or critical hazards. |
|-----------------------|-----------------------------------------------------|
| 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**

| Route                | ATE value      |
|----------------------|----------------|
| Oral                 | 14285.71 mg/kg |
| Inhalation (vapours) | 82.71 mg/l     |

# Section 12. Ecological information

#### **Toxicity Product/ingredient name** Result **Species Exposure** 2-butoxyethanol Acute EC50 1000 mg/l Fresh water Daphnia - Daphnia magna 48 hours Acute LC50 1000 mg/l Marine water 48 hours Crustaceans -Chaetogammarus marinus -Young Daphnia - Daphnia magna Acute EC50 10100 mg/l Fresh water 48 hours propan-2-ol Acute LC50 4200 mg/l Fresh water Fish - Rasbora heteromorpha 96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF   | Potential |
|-------------------------|--------|-------|-----------|
| ethanol                 | -0.35  | -     | low       |
| 2-butoxyethanol         | 0.81   | -     | low       |
| tetraethyl silicate     | 3.18   | -     | low       |
| propan-2-ol             | 0.05   | -     | low       |
| zinc chloride           | -      | 60960 | high      |

#### Mobility in soil

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc)    |                  |

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 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      |

: 05.04.2022 Date of previous issue

:05.04.2022

Version : 1.01

9/11

Date of issue/Date of revision

# Section 14. Transport information

| Packing group            | 111                                | 111                                                                                  | III |
|--------------------------|------------------------------------|--------------------------------------------------------------------------------------|-----|
| Environmental<br>hazards | No.                                | No.                                                                                  | No. |
| Additional information   | Remarks In accordance with 2.3.2.2 | Emergency schedules F-E,<br><u>S-E</u><br>Remarks In accordance with<br>IMDG 2.3.2.2 | -   |

| Additional information                         |   |                                                                                                                                                                                                                   |
|------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADR/RID                                        | : | Hazard identification number 33<br>Tunnel code (D/E)<br>Remarks In accordance with ADR 2.2.3.1.4                                                                                                                  |
| IMDG                                           | 1 | Emergency schedules F-E, <u>S-E</u><br>Remarks In accordance with IMDG 2.3.2.2                                                                                                                                    |
| 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 to IMO instruments | ; | Not available.                                                                                                                                                                                                    |

# Section 15. Regulatory information

| Safety, health and<br>environmental regulations<br>specific for the product | : No known specific national and/or regional regulations applicable to this product (including its ingredients). |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|

#### **International regulations**

#### <u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> 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               | : 05.04.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Date of issue/Date of revision | : 05.04.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Date of previous issue         | : 05.04.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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 = Internediate Bulk Container<br/>IMDG = 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)</li> </ul> |

| Date of issue/Date of revision | : 05.04.2022 Date of pro | evious issue : 05.04.2022 | Version : 1.01 10/ | /11 |
|--------------------------------|--------------------------|---------------------------|--------------------|-----|
|--------------------------------|--------------------------|---------------------------|--------------------|-----|

# Section 16. Other information

#### References

UN = United Nations

: 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.