

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

| 1.1 Product identifier        |                        |
|-------------------------------|------------------------|
| Product name                  | : Jotamastic 85 Comp A |
| Product code                  | : 52742                |
| Product description           | : Paint.               |
| Product type                  | : Liquid.              |
| Other means of identification | : Not available.       |

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

Use in coatings - Industrial use

#### 1.3 Details of the supplier of the safety data sheet

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway

Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no

#### **National contact**

Jotun Paints Europe (Ltd). Unit K7, Marina Commercial Park Centre Park Road Cork Ireland

Tel: +353 214 965955 Fax: +353 214 965992

SDSJotun@jotun.com

#### 1.4 Emergency telephone number

Poisons Information Centre of Ireland: +353 1 809 3000 (8am-10pm, 7 days a week)

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### **SECTION 2: Hazards identification**

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#### 2.2 Label elements

Hazard pictograms



|     |   |   | · · · · ·   |
|-----|---|---|---|
|     | Signal word   | 4 | Warning.  |
|     | Hazard statements   | : | <ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>  |
|     | Precautionary statements  |   |   |
|     | General   | 4 | Not applicable.   |
|     | Prevention  | : | <ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapour.</li> </ul>  |
|     | Response  | : | <ul> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul> |
|     | Storage   | 1 | Not applicable.   |
|     | Disposal  | : | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
|     | Hazardous ingredients   | : | epoxy resin (MW ≤ 700)<br>glycidyl ether of 3-alkyl phenol<br>butan-1-ol<br>hydrocarbons, c9-unsatd., polymd.<br>maleic anhydride   |
|     | Supplemental label elements   | : | EUH205 - Contains epoxy constituents. May produce an allergic reaction.<br>EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed.<br>Do not breathe spray or mist.   |
|     | Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | : | Not applicable.   |
|     | Special packaging requirements  |   | its   |
|     | Containers to be fitted<br>with child-resistant<br>fastenings   | : | Not applicable.   |
|     | Tactile warning of danger   | ; | Not applicable.   |
|     | 2.3 Other hazards   |   |   |
|     | Product meets the criteria<br>for PBT or vPvB according<br>to Regulation (EC) No.<br>1907/2006, Annex XIII  | : | This mixture does not contain any substances that are assessed to be a PBT or a vPvB.   |
|     | Other hazards which do not result in classification   | : | None known.   |
| Ī   | Date of issue/Date of revision  |   | : 20.12.2023 Date of previous issue : No previous validation Version : 1 2/19   |
| L . |   |   |   |

### **SECTION 2: Hazards identification**

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

## **SECTION 3: Composition/information on ingredients**

| 3.2 Mixtures                         | : Mixture  |           |   |   |         |
|--------------------------------------|--|-----------|---|---|---------|
| Product/ingredient name              | Identifiers  | %         | Classification  | Specific Conc.<br>Limits, M-factors<br>and ATEs                             | Туре    |
| epoxy resin (MW ≤ 700)               | REACH #:<br>01-2119456619-26<br>EC: 216-823-5<br>CAS: 1675-54-3<br>Index: 603-073-00-2 | ≥10 - <25 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>Aquatic Chronic 2,<br>H411  | Skin Irrit. 2, H315:<br>C ≥ 5%<br>Eye Irrit. 2, H319:<br>C ≥ 5%             | [1]     |
| xylene                               | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≤10       | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3,<br>H412                   | ATE [Dermal] =<br>1100 mg/kg<br>ATE [Inhalation<br>(vapours)] = 20 mg/<br>I | [1] [2] |
| ethylbenzene                         | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4  | ≤5        | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3,<br>H412  | ATE [Inhalation<br>(vapours)] = 17.8<br>mg/l                                | [1] [2] |
| glycidyl ether of 3-alkyl<br>phenol  | REACH #:<br>01-2119982994-15<br>EC: 500-210-7<br>CAS: 68413-24-1                       | ≤5        | Skin Sens. 1, H317  | -   | [1]     |
| butan-1-ol                           | REACH #:<br>01-2119484630-38<br>EC: 200-751-6<br>CAS: 71-36-3<br>Index: 603-004-00-6   | <3        | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336   | ATE [Oral] = 500<br>mg/kg   | [1] [2] |
| hydrocarbons, c9-unsatd.,<br>polymd. | REACH #:<br>01-2119555292-40<br>EC: 701-299-7<br>CAS: 71302-83-5                       | ≤3        | Skin Sens. 1, H317<br>Aquatic Chronic 3,<br>H412  | -   | [1]     |
| maleic anhydride                     | REACH #:<br>01-2119472428-31<br>EC: 203-571-6<br>CAS: 108-31-6<br>Index: 607-096-00-9  | <0.001    | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>Skin Sens. 1A, H317<br>STOT RE 1, H372<br>(respiratory system)<br>(inhalation)<br>STOT RE 2, H373<br>EUH071 | ATE [Oral] = 400<br>mg/kg<br>Skin Sens. 1, H317:<br>C ≥ 0.001%              | [1] [2] |

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| Jotamastic 85 Comp A                              |  |   |  |
|---|--|---|--|
| SECTION 3: Composition/information on ingredients |  |   |  |
|   |  | See Section 16 for<br>the full text of the H<br>statements declared<br>above. |  |

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains  $\ge 1\%$  of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

| General                    | : | In all cases of doubt, or when symptoms persist, seek medical attention. Never give<br>anything by mouth to an unconscious person. If unconscious, place in recovery<br>position and seek medical advice.   |
|----------------------------|---|---|
| Eye contact                | : | Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.   |
| Inhalation                 | : | Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.  |
| Skin contact               | : | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.  |
| Ingestion                  | : | If swallowed, seek medical advice immediately and show the container or label.<br>Keep person warm and at rest. Do NOT induce vomiting.   |
| 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

#### 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane, hydrocarbons, C9-unsaturated, polymerized, maleic anhydride.

### **SECTION 4: First aid measures**

May produce an allergic reaction.

#### **Over-exposure signs/symptoms**

| 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.  |
| 4.3 Indication of any imm | nediate medical attention and special treatment needed   |
| Notes to physician        | : Treat symptomatically. Contact poison treatment specialist immediately if large<br>quantities have been ingested or inhaled. |
| Specific treatments       | : No specific treatment.   |

See toxicological information (Section 11)

| SECTION 5: Firefighting measures                          |   |  |
|---|---|--|
| 5.1 Extinguishing media                                   |   |  |
| Suitable extinguishing media                              | : Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.  |  |
| Unsuitable extinguishing media                            | : Do not use water jet.   |  |
| 5.2 Special hazards arising from the substance or mixture |   |  |
| Hazards from the substance or mixture                     | : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.                      |  |
| Hazardous combustion products                             | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. |  |
| 5.3 Advice for firefighters                               |   |  |
| Special protective actions for fire-fighters              | : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.           |  |
| Special protective  | : Appropriate breathing apparatus may be required.  |  |

## **SECTION 6: Accidental release measures**

| 6.1 Personal precautions, protective equipment and emergency procedures |   |   |
|---|---|---|
| For non-emergency<br>personnel  | : | Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist.<br>Refer to protective measures listed in sections 7 and 8.   |
| 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". |
| 6.2 Environmental precautions   | : | Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.                              |

equipment for fire-fighters

### SECTION 6: Accidental release measures

| 6.3 Methods and material<br>for containment and<br>cleaning up | : | Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents. |
|--|---|---|
| 6.4 Reference to other sections                                | : | See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information.   |

### **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Seveso Directive - Reporting thresholds

#### Danger criteria

|     | Notification and MAPP threshold | Safety report threshold |
|-----|---------------------------------|-------------------------|
| P5c | 5000 tonne                      | 50000 tonne             |

See Technical Data Sheet / packaging for further information.

### 7.3 Specific end use(s)

| Recommendations                      | : Not available. |
|--------------------------------------|------------------|
| Industrial sector specific solutions | : Not available. |

Date of issue/Date of revision

idation Version :1

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

| Product/ingredient name | Exposure limit values   |
|-------------------------|---|
| xylene                  | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,<br>p- or mixed isomers] Absorbed through skin.<br>STEL: 441 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 220 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours. |
| ethylbenzene            | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed<br>through skin.<br>STEL: 552 mg/m <sup>3</sup> 15 minutes.  |
|                         | STEL: 125 ppm 15 minutes.<br>TWA: 100 ppm 8 hours.<br>TWA: 441 mg/m <sup>3</sup> 8 hours.   |
| butan-1-ol              | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed<br>through skin.<br>STEL: 154 mg/m <sup>3</sup> 15 minutes.<br>STEL: 50 ppm 15 minutes.  |
| maleic anhydride        | EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation<br>sensitiser.<br>STEL: 3 mg/m <sup>3</sup> 15 minutes.<br>TWA: 1 mg/m <sup>3</sup> 8 hours.   |
| Product/ingredient name | Exposure indices  |

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

| Product/ingredient name | Туре | Exposure                | Value                  | Population            | Effects  |
|-------------------------|------|-------------------------|------------------------|-----------------------|----------|
| epoxy resin (MW ≤ 700)  | DNEL | Long term Dermal        | 89.3 µg/kg<br>bw/day   | General population    | Systemic |
|                         | DNEL | Long term Oral          | 0.5 mg/kg<br>bw/day    | General<br>population | Systemic |
|                         | DNEL | Long term Dermal        | 0.75 mg/<br>kg bw/day  | Workers               | Systemic |
|                         | DNEL | Long term<br>Inhalation | 0.87 mg/m <sup>3</sup> | General population    | Systemic |
|                         | DNEL | Long term<br>Inhalation | 4.93 mg/m <sup>3</sup> |                       | Systemic |
| xylene                  | DNEL | Long term Oral          | 5 mg/kg<br>bw/day      | General population    | Systemic |
|                         | DNEL | Long term<br>Inhalation | 65.3 mg/m <sup>3</sup> |                       | Local    |
|                         | DNEL | Long term<br>Inhalation | 65.3 mg/m <sup>3</sup> |                       | Systemic |
|                         | DNEL | Long term Dermal        | 125 mg/kg<br>bw/day    | General population    | Systemic |

|                                  | DNEL | Long term Dermal                      | 212 mg/kg                   | Workers               | Systemic |
|----------------------------------|------|---------------------------------------|-----------------------------|-----------------------|----------|
|                                  | DNEL | Long term                             | bw/day<br>221 mg/m³         | Workers               | Local    |
|                                  | DNEL | Inhalation<br>Long term               | 221 mg/m³                   | Workers               | Systemic |
|                                  | DNEL | Inhalation<br>Short term              | 260 mg/m³                   | General               | Local    |
|                                  | DNEL | Inhalation<br>Short term              | 260 mg/m³                   | population<br>General | Systemic |
|                                  | DNEL | Inhalation<br>Short term              | 442 mg/m <sup>3</sup>       | population<br>Workers | Local    |
|                                  | DNEL | Inhalation<br>Short term              | 442 mg/m <sup>3</sup>       | Workers               | Systemic |
| thylbenzene                      | DMEL | Inhalation<br>Long term<br>Inhalation | 442 mg/m <sup>3</sup>       | Workers               | Local    |
|                                  | DMEL | Short term<br>Inhalation              | 884 mg/m³                   | Workers               | Systemic |
|                                  | DNEL | Long term Oral                        | 1.6 mg/kg<br>bw/day         | General<br>population | Systemic |
|                                  | DNEL | Long term<br>Inhalation               | 15 mg/m <sup>3</sup>        | General<br>population | Systemic |
|                                  | DNEL | Long term<br>Inhalation               | 77 mg/m³                    | Workers               | Systemic |
|                                  | DNEL | Long term Dermal                      | 180 mg/kg<br>bw/day         | Workers               | Systemic |
|                                  | DNEL | Short term<br>Inhalation              | 293 mg/m <sup>3</sup>       | Workers               | Local    |
| lycidyl ether of 3-alkyl phenol  | DNEL | Long term Oral                        | 0.31 mg/<br>kg bw/day       | General<br>population | Systemic |
|                                  | DNEL | Long term Dermal                      | 0.31 mg/<br>kg bw/day       | General population    | Systemic |
|                                  | DNEL | Long term<br>Inhalation               | 0.54 mg/m <sup>3</sup>      | General<br>population | Systemic |
|                                  | DNEL | Long term Dermal                      | 0.875 mg/<br>kg bw/day      | Workers               | Systemic |
|                                  |      | Long term<br>Inhalation               | 3.09 mg/m <sup>3</sup>      |                       | Systemic |
| utan-1-ol                        | DNEL | Long term Oral                        | 1.5625 mg/<br>kg bw/day     | General<br>population | Systemic |
|                                  | DNEL | Long term Dermal                      | 3.125 mg/<br>kg bw/day      | General<br>population | Systemic |
|                                  | DNEL | Long term<br>Inhalation               | 55.357 mg/<br>m³            | General population    | Systemic |
|                                  | DNEL | Long term<br>Inhalation               | 155 mg/m <sup>3</sup>       | General<br>population | Local    |
|                                  | DNEL | Long term<br>Inhalation               | 310 mg/m <sup>3</sup>       | Workers               | Local    |
| ydrocarbons, c9-unsatd., polymd. | DNEL | Long term Dermal                      | 3.5 mg/kg<br>bw/day         | Workers               | Systemic |
|                                  | DNEL | Long term<br>Inhalation               | 1.41 mg/m <sup>3</sup>      |                       | Systemic |
| naleic anhydride                 | DNEL | Long term<br>Inhalation               | 0.05 mg/m <sup>3</sup>      | General<br>population | Systemic |
|                                  | DNEL | Long term Oral                        | 0.06 mg/<br>kg bw/day       | General<br>population | Systemic |
|                                  | DNEL | Long term<br>Inhalation               | 0.08 mg/m <sup>3</sup>      | General<br>population | Local    |
|                                  | DNEL | Long term<br>Inhalation               | 0.081 mg/<br>m <sup>3</sup> | Workers               | Local    |
|                                  | DNEL | Long term<br>Inhalation               | 0.081 mg/<br>m <sup>3</sup> | Workers               | Systemic |
|                                  | DNEL | Short term Oral                       | 0.1 mg/kg                   | General               | Systemic |

### **SECTION 8: Exposure controls/personal protection**

|      |                          | ••••                          |                                     |          |
|------|--------------------------|-------------------------------|-------------------------------------|----------|
| DNEL | Short term Dermal        | bw/day<br>0.1 mg/kg<br>bw/day | population<br>General<br>population | Systemic |
| DNEL | Long term Dermal         | 0.1 mg/kg<br>bw/day           | General                             | Systemic |
| DNEL | Short term Dermal        | 0.2 mg/kg<br>bw/day           | Workers                             | Systemic |
| DNEL | Long term Dermal         | 0.2 mg/kg<br>bw/day           | Workers                             | Systemic |
| DNEL | Short term<br>Inhalation | 0.2 mg/m <sup>3</sup>         | Workers                             | Local    |
| DNEL | Short term<br>Inhalation | 0.2 mg/m <sup>3</sup>         | Workers                             | Systemic |

#### **PNECs**

| Product/ingredient name           | Compartment Detail    | Value            | Method Detail |
|-----------------------------------|-----------------------|------------------|---------------|
| epoxy resin (MW ≤ 700)            | Fresh water           | 0.006 mg/l       | -             |
|                                   | Marine                | 0.0006 mg/l      | -             |
|                                   | Sewage Treatment      | 10 mg/l          | -             |
|                                   | Plant                 |                  |               |
|                                   | Fresh water sediment  | 0.996 mg/l       | -             |
|                                   | Marine water sediment | 0.0996 mg/l      | -             |
|                                   | Soil                  | 0.196 mg/l       | -             |
| xylene                            | Fresh water           | 0.327 mg/l       | -             |
| -                                 | Marine                | 0.327 mg/l       | -             |
|                                   | Sewage Treatment      | 6.58 mg/l        | -             |
|                                   | Plant                 | Ū                |               |
|                                   | Fresh water sediment  | 12.46 mg/kg dwt  | -             |
|                                   | Marine water sediment | 12.46 mg/kg dwt  | -             |
|                                   | Soil                  | 2.31 mg/kg dwt   | -             |
| ethylbenzene                      | Fresh water           | 0.1 mg/l         | -             |
| ,                                 | Marine                | 0.01 mg/l        | -             |
|                                   | Sewage Treatment      | 9.6 mg/l         | -             |
|                                   | Plant                 | Ŭ                |               |
|                                   | Fresh water sediment  | 13.7 mg/kg dwt   | -             |
|                                   | Soil                  | 2.68 mg/kg dwt   | -             |
|                                   | Secondary Poisoning   | 20 mg/kg         | -             |
| butan-1-ol                        | Fresh water           | 0.082 mg/l       | -             |
|                                   | Marine                | 0.0082 mg/l      | -             |
|                                   | Sewage Treatment      | 2476 mg/l        | -             |
|                                   | Plant                 | - 5              |               |
|                                   | Fresh water sediment  | 0.178 mg/kg dwt  | -             |
|                                   | Marine water sediment | 0.0178 mg/kg dwt | -             |
|                                   | Soil                  | 0.015 mg/kg dwt  | -             |
| hydrocarbons, c9-unsatd., polymd. | Fresh water           | 54 µg/l          | -             |
| 5 <i>i i i i</i>                  | Marine                | 5.4 µg/l         | -             |
|                                   | Sewage Treatment      | 2.2 mg/l         | -             |
|                                   | Plant                 | Ŭ                |               |
|                                   | Fresh water sediment  | 1584 mg/kg dwt   | -             |
|                                   | Marine water sediment | 158 mg/kg dwt    | -             |
|                                   | Soil                  | 316.7 mg/kg dwt  | -             |
|                                   | Secondary Poisoning   | 200 mg/kg        | -             |
|                                   | Secondary Foisoning   | 200 1119/kg      | -             |

#### 8.2 Exposure controls

# Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

Date of issue/Date of revision

### **SECTION 8: Exposure controls/personal protection**

| Hygiene measures    | : Wash hands, forearms and face thoroughly after handling chemical products, before<br>eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Contaminated work clothing should not be allowed out of the workplace. Wash<br>contaminated clothing before reusing. Ensure that eyewash stations and safety<br>showers are close to the workstation location. |
|---------------------|---|
| Eye/face protection | : Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.  |
| <b>O 1 1 1 1</b>    |   |

### Skin protection

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

#### <u>Gloves</u>

Wear suitable gloves tested to ISO 374-1:2016.

May be used, gloves(breakthrough time) 4 - 8 hours: Viton® (> 0.7 mm), neoprene (> 0.35 mm), butyl rubber (> 0.4 mm)

Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm)

Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.75 mm), 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

| Body protection                 | : Personnel should wear antistatic clothing made of natural fibres or of high-<br>temperature-resistant synthetic fibres.  |
|---------------------------------|--|
| Other skin protection           | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| Respiratory protection          | : 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. |
| Environmental exposure controls | : Do not allow to enter drains or watercourses.  |

### **SECTION 9: Physical and chemical properties**

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

#### 9.1 Information on basic physical and chemical properties

| Date of issue/Date of revision | : 20.12.2023 Date of previous iss | ue : No previous validation | Version : 1 |
|--------------------------------|-----------------------------------|-----------------------------|-------------|
| Odour                          | : Hydrocarbon.                    |                             |             |
| Colour                         | : Grey. Aluminium                 |                             |             |
| Physical state                 | : Liquid.                         |                             |             |
| Appearance                     |                                   |                             |             |

10/19

## **SECTION 9: Physical and chemical properties**

| <b>,</b>                                   |                               |   |
|--|-------------------------------|---|
| Odour threshold                            | ot applicab                   | ble.  |
| Melting point/freezing point               | ot applicab                   | ole.  |
| Initial boiling point and<br>boiling range | owest knov<br>18.76°C (4      | vn value: 119°C (246.2°F) (butan-1-ol). Weighted average:<br>25.8°F)                              |
| Flammability                               | ot applicab                   | ole.  |
| Lower and upper explosion limit            | .8 - 11.3%                    |   |
| Flash point                                | losed cup:                    | 32.5°C  |
| Auto-ignition temperature                  | owest knov                    | vn value: 355°C (671°F) (butan-1-ol).   |
| Decomposition temperature                  | ot available                  | 9.  |
| рН   | ot applicab                   | ole.  |
| Viscosity                                  | inematic (4                   | 40°C): >20.5 mm²/s  |
| Solubility in water                        | old water<br>ot water         | Not soluble<br>Not soluble  |
| Partition coefficient: n-octanol/<br>water | ot available                  | e.  |
| Vapour pressure                            |                               | wn value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted<br>I3 kPa (3.23 mm Hg) (at 20°C) |
| Evaporation rate                           | lighest knov<br>rith butyl ac | wn value: 0.84 (ethylbenzene) Weighted average: 0.73compared<br>eetate                            |
| Density                                    | .55 to 1.56                   | 9 g/cm³   |
| Vapour density                             |                               | wn value: 11.7 (Air = 1) (epoxy resin (MW $\leq$ 700)). Weighted 37 (Air = 1)                     |
| Explosive properties                       | ot available                  | е.  |
| Oxidising properties                       | ot available                  | е.  |
| Particle characteristics                   |                               |   |
| Median particle size                       | ot applicab                   | ole.  |
|  |                               |   |

#### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

| 10.1 Reactivity                            | : | No specific test data related to reactivity available for this product or its ingredients.                                     |
|--|---|--|
| 10.2 Chemical stability                    | : | Stable under recommended storage and handling conditions (see Section 7).  |
| 10.3 Possibility of<br>hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur.  |
| 10.4 Conditions to avoid                   | : | When exposed to high temperatures may produce hazardous decomposition products.  |
| 10.5 Incompatible materials                | : | Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| 10.6 Hazardous<br>decomposition products   | : | Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.        |

## **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **SECTION 11: Toxicological information**

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane, hydrocarbons, C9-unsaturated, polymerized, maleic anhydride. May produce an allergic reaction.

#### Acute toxicity

| Product/ingredient name     | Result                 | Species    | Dose        | Exposure |
|-----------------------------|------------------------|------------|-------------|----------|
| epoxy resin (MW $\leq$ 700) | LD50 Dermal            | Rabbit     | 20 g/kg     | -        |
| ,                           | LD50 Oral              | Mouse      | 15600 mg/kg | -        |
| xylene                      | LC50 Inhalation Vapour | Rat        | 20 mg/l     | 4 hours  |
|                             | LD50 Oral              | Rat        | 4300 mg/kg  | -        |
|                             | TDLo Dermal            | Rabbit     | 4300 mg/kg  | -        |
| ethylbenzene                | LC50 Inhalation Vapour | Rat - Male | 17.8 mg/l   | 4 hours  |
| -                           | LD50 Dermal            | Rabbit     | >5000 mg/kg | -        |
|                             | LD50 Oral              | Rat        | 3500 mg/kg  | -        |
| butan-1-ol                  | LD50 Oral              | Rat        | 790 mg/kg   | -        |
| hydrocarbons, c9-unsatd.,   | LD50 Dermal            | Rat        | 2000 mg/kg  | -        |
| polymd.                     |                        |            |             |          |
|                             | LD50 Oral              | Rat        | 2000 mg/kg  | -        |
| maleic anhydride            | LD50 Oral              | Rat        | 400 mg/kg   | -        |

#### Acute toxicity estimates

| Product/ingredient name | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|-------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| Jotamastic 85 Comp A    | 20000            | 11622.7           | N/A                            | 153.7                             | N/A  |
| xylene                  | 4300             | 1100              | N/A                            | 20                                | N/A  |
| ethylbenzene            | 3500             | N/A               | N/A                            | 17.8                              | N/A  |
| butan-1-ol              | 500              | N/A               | N/A                            | N/A                               | N/A  |
| maleic anhydride        | 400              | N/A               | N/A                            | N/A                               | N/A  |

Irritation/Corrosion

## **SECTION 11: Toxicological information**

|                         | -9                     |         |       |                           |             |
|-------------------------|------------------------|---------|-------|---------------------------|-------------|
| Product/ingredient name | Result                 | Species | Score | Exposure                  | Observation |
| epoxy resin (MW ≤ 700)  | Eyes - Severe irritant | Rabbit  | -     | 24 hours 2<br>milligrams  | -           |
|                         | Skin - Mild irritant   | Rabbit  | -     | 500<br>milligrams         | -           |
| xylene                  | Eyes - Mild irritant   | Rabbit  | -     | 87 milligrams             | -           |
|                         | Skin - Mild irritant   | Rat     | -     | 8 hours 60<br>microliters | -           |
| maleic anhydride        | Eyes - Severe irritant | Rabbit  | -     | 1 Percent                 | -           |

#### **Sensitisation**

| Product/ingredient name             | Route of exposure | Species                         | Result      |
|-------------------------------------|-------------------|---------------------------------|-------------|
| epoxy resin (MW ≤ 700)              | skin              | Mammal - species<br>unspecified | Sensitising |
| glycidyl ether of 3-alkyl<br>phenol | skin              | Mammal - species<br>unspecified | Sensitising |
| hydrocarbons, c9-unsatd., polymd.   | skin              | Mouse                           | Sensitising |
| maleic anhydride                    | skin              | Mammal - species<br>unspecified | Sensitising |

#### **Mutagenicity**

No known significant effects or critical hazards.

#### **Carcinogenicity**

No known significant effects or critical hazards.

#### **Reproductive toxicity**

**Developmental effects** 

Fertility effects

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

#### **Teratogenicity**

No known significant effects or critical hazards.

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

| Product/ingredient name | Category   | Route of exposure | Target organs                   |
|-------------------------|------------|-------------------|---------------------------------|
| xylene                  | Category 3 | -                 | Respiratory tract irritation    |
| butan-1-ol              | Category 3 | -                 | Respiratory tract<br>irritation |
|                         | Category 3 |                   | Narcotic effects                |

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

| Product/ingredient name          | Category                               | Route of exposure | Target organs                        |
|----------------------------------|--|-------------------|--------------------------------------|
| ethylbenzene<br>maleic anhydride | Category 2<br>Category 1<br>Category 2 |                   | hearing organs<br>respiratory system |

#### Aspiration hazard

| Product/ingredient name | Result                         |  |
|-------------------------|--------------------------------|--|
| xylene                  | ASPIRATION HAZARD - Category 1 |  |
| ethylbenzene            | ASPIRATION HAZARD - Category 1 |  |

#### **11.2 Information on other hazards**

#### **11.2.1 Endocrine disrupting properties**

Not available.

### **SECTION 11: Toxicological information**

#### **11.2.2 Other information**

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

| Product/ingredient name | Result                                | Species                          | Exposure |
|-------------------------|---------------------------------------|----------------------------------|----------|
| epoxy resin (MW ≤ 700)  | Acute EC50 1.4 mg/l                   | Daphnia                          | 48 hours |
|                         | Acute LC50 3.1 mg/l                   | Fish - pimephales promelas       | 96 hours |
|                         | Chronic NOEC 0.3 mg/l                 | Fish                             | 21 days  |
| xylene                  | Acute LC50 8500 µg/l Marine water     | Crustaceans - Palaemonetes pugio | 48 hours |
|                         | Acute LC50 13400 µg/l Fresh water     | Fish - Pimephales promelas       | 96 hours |
| ethylbenzene            | Acute EC50 7700 µg/l Marine water     | Algae - Skeletonema costatum     | 96 hours |
| ,                       | Acute EC50 2.93 mg/l                  | Daphnia                          | 48 hours |
|                         | Acute LC50 4.2 mg/l                   | Fish                             | 96 hours |
| maleic anhydride        | Acute LC50 230 ppm Fresh water        | Fish - Gambusia affinis - Adult  | 96 hours |
| Conclusion/Summary      | : This material is harmful to aquatic | life with long lasting effects.  |          |

#### 12.2 Persistence and degradability

| Conclusion/Summary               | : Not available.  |            |                        |
|----------------------------------|-------------------|------------|------------------------|
| Product/ingredient name          | Aquatic half-life | Photolysis | Biodegradability       |
| epoxy resin (MW ≤ 700)<br>xylene |                   | -          | Not readily<br>Readily |
| ethylbenzene                     | -                 | -          | Readily                |

#### **12.3 Bioaccumulative potential**

| Product/ingredient name           | LogPow       | BCF         | Potential |
|-----------------------------------|--------------|-------------|-----------|
| epoxy resin (MW ≤ 700)            | 2.64 to 3.78 | 31          | low       |
| xylene                            | 3.12         | 8.1 to 25.9 | low       |
| ethylbenzene                      | 3.6          | -           | low       |
| butan-1-ol                        | 1            | -           | low       |
| hydrocarbons, c9-unsatd., polymd. | 3.627        | -           | low       |
| maleic anhydride                  | -2.78        | -           | low       |

#### **12.4 Mobility in soil**

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

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

Date of issue/Date of revision

## **SECTION 12: Ecological information**

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

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

#### **13.1 Waste treatment methods**

| Product                 |   |   |
|-------------------------|---|---|
| Methods of disposal     | : | The generation of waste should be avoided or minimised wherever possible.<br>Disposal of this product, solutions and any by-products should at all times comply<br>with the requirements of environmental protection and waste disposal legislation and<br>any regional local authority requirements. Dispose of surplus and non-recyclable<br>products via a licensed waste disposal contractor. Waste should not be disposed of<br>untreated to the sewer unless fully compliant with the requirements of all authorities<br>with jurisdiction. |
| Hazardous waste         | : | Yes.  |
| Disposal considerations | : | Do not allow to enter drains or watercourses.<br>Dispose of according to all federal, state and local applicable regulations.<br>If this product is mixed with other wastes, the original waste product code may no<br>longer apply and the appropriate code should be assigned.<br>For further information, contact your local waste authority.  |

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code              | Waste designation   |   |  |
|-------------------------|---|---|--|
| 08 01 11*               | Waste paint and   | varnish containing organic solvents or other dangerous substances   |  |
| Packaging               |   |   |  |
| Methods of disposal     | packaging s   | tion of waste should be avoided or minimised wherever possible. Waste should be recycled. Incineration or landfill should only be considered ing is not feasible. |  |
| Disposal considerations | <ul> <li>Using information provided in this safety data sheet, advice should be obtained from<br/>the relevant waste authority on the classification of empty containers.<br/>Empty containers must be scrapped or reconditioned.<br/>Dispose of containers contaminated by the product in accordance with local or<br/>national legal provisions.</li> </ul> |   |  |
| Type of packaging       |   | European waste catalogue (EWC)  |  |
| CEPE Guidelines         | 15 01 10*   | packaging containing residues of or contaminated by hazardous substances  |  |

Special precautions : 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 | ADN    | IMDG   | IATA   |
|---------------------------------|---------|--------|--------|--------|
| 14.1 UN number<br>or ID number  | UN1263  | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper<br>shipping name | Paint   | Paint  | Paint  | Paint  |
|                                 |         |        |        |        |
|                                 |         |        | ]      |        |

| ſ | Jotamastic | 85 | Comp | Α |
|---|------------|----|------|---|
|---|------------|----|------|---|

| Jotamastic 85 Comp A SECTION 14: Transport information             |       |   |                        |                                    |  |   |   |
|--|-------|---|------------------------|------------------------------------|--|---|---|
|  |       |   |                        | 14.3 Transport<br>hazard class(es) | 3  | • | 3 |
| 14.4 Packing<br>group  |       |   |                        | III                                |  |   |   |
| 14.5<br>Environmental<br>hazards                                   | No.   |   | Yes.                   | No.                                | No.  |   |   |
| Additional informa   | ation |   |                        |                                    |  |   |   |
| ADR/RID<br>ADN   |       | Tunne<br>ADR/F<br>recept<br>: The pr  | acles < 450 litre capa | ce. Not goods of class (<br>city). | 3, ref. 2.2.3.1.5 (only applicable to<br>ly hazardous substance when |   |   |
| IMDG   |       | <ul> <li>Emergency schedules F-E, <u>S-E</u></li> <li>IMDG: Viscous substance. Transport in accordance with 2.3.2.5 of the IMDG Code<br/>(only applicable to receptacles &lt; 450 litre capacity).</li> </ul>       |                        |                                    |  |   |   |
| UN   |       | : UN: Viscous substance. Not goods of class 3, ref. 2.3.2.5 (only applicable to receptacles < 450 litre capacity).  |                        |                                    |  |   |   |
| 14.6 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. |                        |                                    |  |   |   |
| 14.7 Maritime transport in<br>bulk according to IMO<br>instruments |       | : Not av  | : Not available.       |                                    |  |   |   |

## **SECTION 15: Regulatory information**

| 15.1 Safety, health and environmental regula | tions/legislation specific for the substance or mixture |
|--|---|
| EU Regulation (EC) No. 1907/2006 (REACH)     |   |

#### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market<br>and use of certain<br>dangerous substances,<br>mixtures and articles | : Not applicable.  |
|---|--|
| Other EU regulations  |  |
| VOC   | : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information. |
| VOC for Ready-for-Use<br>Mixture  | : Not available.   |

### **SECTION 15: Regulatory information**

| Industrial emissions<br>(integrated pollution<br>prevention and control) -<br>Air   | : | Not listed |
|---|---|------------|
| Industrial emissions<br>(integrated pollution<br>prevention and control) -<br>Water | : | Not listed |
| Ozone depleting substances (1005/2009/EU)   |   |            |
| Not listed.   |   |            |

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants Not listed.

#### Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### **National regulations**

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

## Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

## **15.2 Chemical safety** : Not applicable.

assessment

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

| Abbreviations and<br>acronyms | <ul> <li>ATE = Acute Toxicity Estimate<br/>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.<br/>1272/2008]<br/>DMEL = Derived Minimal Effect Level<br/>DNEL = Derived No Effect Level<br/>EUH statement = CLP-specific Hazard statement<br/>N/A = Not available<br/>PBT = Persistent, Bioaccumulative and Toxic<br/>PNEC = Predicted No Effect Concentration<br/>RRN = REACH Registration Number<br/>SGG = Segregation Group<br/>vPvB = Very Persistent and Very Bioaccumulative</li> </ul> |
|-------------------------------|--|
|-------------------------------|--|

## **SECTION 16: Other information**

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification          | Justification         |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226      | On basis of test data |
| Skin Irrit. 2, H315     | Calculation method    |
| Eye Irrit. 2, H319      | Calculation method    |
| Skin Sens. 1, H317      | Calculation method    |
| Aquatic Chronic 3, H412 | Calculation method    |

#### Full text of abbreviated H statements

| H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H302Harmful if swallowed.H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H314Causes severe skin burns and eye damage.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H332Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H335May cause drowsiness or dizziness.H372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.EUH071Corrosive to the respiratory tract.  |        |  |
|---|--------|--|
| H302Harmful if swallowed.H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H314Causes severe skin burns and eye damage.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H322Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H335May cause allergy or asthma symptoms or breathing difficulties if inhaled.H336May cause drowsiness or dizziness.H372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.  | H225   | Highly flammable liquid and vapour.  |
| <ul> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H322 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul> | H226   | Flammable liquid and vapour.   |
| H312Harmful in contact with skin.H314Causes severe skin burns and eye damage.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H322Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.   | H302   | Harmful if swallowed.  |
| H314Causes severe skin burns and eye damage.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H322Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H335May cause allergy or asthma symptoms or breathing difficulties if inhaled.H336May cause respiratory irritation.H336May cause drowsiness or dizziness.H372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.  | H304   | May be fatal if swallowed and enters airways.                              |
| <ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>  | H312   | Harmful in contact with skin.  |
| <ul> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>   | H314   | Causes severe skin burns and eye damage.                                   |
| <ul> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>   | H315   | Causes skin irritation.  |
| <ul> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>  | H317   | May cause an allergic skin reaction.                                       |
| <ul> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>   | H318   | Causes serious eye damage.   |
| <ul> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>   | H319   | Causes serious eye irritation.   |
| <ul> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>  | H332   | Harmful if inhaled.  |
| <ul> <li>H336 May cause drowsiness or dizziness.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>  | H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| <ul> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>   | H335   | May cause respiratory irritation.  |
| <ul> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>   | H336   | May cause drowsiness or dizziness.   |
| H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.  | H372   | Causes damage to organs through prolonged or repeated exposure.            |
| H412 Harmful to aquatic life with long lasting effects.   | H373   | May cause damage to organs through prolonged or repeated exposure.         |
|   | H411   | Toxic to aquatic life with long lasting effects.                           |
| EUH071 Corrosive to the respiratory tract.  | H412   | Harmful to aquatic life with long lasting effects.                         |
|   | EUH071 | Corrosive to the respiratory tract.  |

#### Full text of classifications [CLP/GHS]

| Acute Tox. 4                    | ACUTE TOXICITY - Category 4                                     |
|---------------------------------|---|
| Aquatic Chronic 2               | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                 |
| Aquatic Chronic 3               | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |
| Asp. Tox. 1                     | ASPIRATION HAZARD - Category 1                                  |
| Eye Dam. 1                      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                  |
| Eye Irrit. 2                    | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                  |
| Flam. Liq. 2                    | FLAMMABLE LIQUIDS - Category 2                                  |
| Flam. Liq. 3                    | FLAMMABLE LIQUIDS - Category 3                                  |
| Resp. Sens. 1                   | RESPIRATORY SENSITISATION - Category 1                          |
| Skin Corr. 1B                   | SKIN CORROSION/IRRITATION - Category 1B                         |
| Skin Irrit. 2                   | SKIN CORROSION/IRRITATION - Category 2                          |
| Skin Sens. 1                    | SKIN SENSITISATION - Category 1                                 |
| Skin Sens. 1A                   | SKIN SENSITISATION - Category 1A                                |
| Skin Sens. 1B                   | SKIN SENSITISATION - Category 1B                                |
| STOT RE 1                       | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| STOT RE 2                       | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3                       | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |
| Date of printing                | : 20.12.2023  |
| Date of issue/ Date of revision | : 20.12.2023  |

| Date of previous issue | 1 | No previous validation |
|------------------------|---|------------------------|
| Version                | : | 1                      |

Notice to reader

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Jotamastic 85 Comp A

### **SECTION 16: Other information**

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.