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## **Jotamastic Smart Pack Comp A**

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

| 1.1 Product identifier           |                                |
|----------------------------------|--------------------------------|
| Product name                     | : Jotamastic Smart Pack Comp A |
| Product code                     | : 1550                         |
| Product description              | : Paint.                       |
| Product type                     | : Liquid.                      |
| Other means of<br>identification | : Not available.               |

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

Use in coatings - Industrial use Use in coatings - Professional use

#### See Annex to the Safety data sheet for additional information in the Exposure Scenario(s).

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

Jotun Paints (Europe) Ltd. Stather Road Flixborough, Scunthorpe North Lincolnshire DN15 8RR England

Tel: +44 17 24 40 00 00 Fax: +44 17 24 40 01 00 SDSJotun@jotun.com

#### 1.4 Emergency telephone number

Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

: 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 2, H411

**Product definition** 

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

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

## 2.2 Label elements

Hazard pictograms



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| <b>SECTION 2: Hazards</b>   | ic  | lentification   |
|---|-----|---|
| Signal word   | :   | Warning.  |
| Hazard statements   | :   | H226 - Flammable liquid and vapour.<br>H319 - Causes serious eye irritation.<br>H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H411 - Toxic to aquatic life with long lasting effects.  |
| Precautionary statements  |     | ······································  |
| General   | :   | Not applicable.   |
| Prevention  |     | P280 - Wear protective gloves. Wear eye or face protection.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition<br>sources. No smoking.<br>P273 - Avoid release to the environment.   |
| Response  | :   | <ul> <li>P391 - Collect spillage.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul> |
| Storage   | :   | P403 - Store in a well-ventilated place.<br>P235 - Keep cool.   |
| Disposal  | :   | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
| Hazardous ingredients   | :   | 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br>Phenol, methylstyrenated<br>epoxy resin (MW 700-1200)  |
| Supplemental label<br>elements  | :   | Contains epoxy constituents. May produce an allergic reaction.  |
| 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 requirem  | nen | i <u>ts</u>   |
| Containers to be fitted<br>with child-resistant<br>fastenings   | :   | Not applicable.   |
| Tactile warning of danger   | ;   | Not applicable.   |
| 2.3 Other hazards   |     |   |
| Other hazards which do  |     | None known  |

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

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**

| Product/ingredient name  | Identifiers  | Weight %  | Regulation (EC) No.<br>1272/2008 [CLP]  | 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 | ≥25 - ≤50 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411 | [1]  |
| Phenol, methylstyrenated | REACH #:<br>01-2119555274-38<br>EC: 270-966-8<br>CAS: 68512-30-1                       | ≤10       | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                        | [1]  |

| SECTION 3: Compositio                            | n/information on i   | ngredien | ts  |         |
|--|--|----------|---|---------|
| 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  | [1] [2] |
| epoxy resin (MW 700-1200)                        | CAS: 25036-25-3  | ≤5       | Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317  | [1]     |
| hydrocarbons, C9, aromatics, (<0.<br>1% Benzene) | REACH #:<br>01-2119455851-35<br>EC: 918-668-5<br>CAS: 64742-95-6                       | ≤5       | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411  | [1]     |
| ethylbenzene                                     | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4  | ≤3       | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373 (hearing<br>organs)<br>Asp. Tox. 1, H304  | [1] [2] |
| benzyl alcohol                                   | REACH #:<br>01-2119492630-38<br>EC: 202-859-9<br>CAS: 100-51-6                         | ≤3       | Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319  | [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<br>See Section 16 for the full<br>text of the H statements<br>declared above. | [1] [2] |

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

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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 anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.                      |
|--------------------------------|--|
| Eye contact                    | <ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the<br/>eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>  |
| Inhalation                     | <ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is<br/>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by<br/>trained personnel.</li> </ul> |
| Skin contact                   | <ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and<br/>water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>   |
| Ingestion                      | : If swallowed, seek medical advice immediately and show the container or label.<br>Keep person warm and at rest. Do NOT induce vomiting.  |
| Date of issue/Date of revision | : 03.07.2019 Date of previous issue : 23.05.2019 Version : 2 3/19  |

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

| 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, Phenol, methylstyrenated, epoxy resin (MW 700-1200). May produce an allergic reaction.

#### 4.3 Indication of any immediate medical attention and special treatment needed

| 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.  |

See toxicological information (Section 11)

### **SECTION 5: Firefighting measures**

|  | 0   |
|--|---|
| 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 f                | rom 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.           |
| Date of issue/Date of revision               | : 03.07.2019 Date of previous issue : 23.05.2019 Version : 2 4/1  |

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## **SECTION 5: Firefighting measures**

Special protective equipment for fire-fighters

: Appropriate breathing apparatus may be required.

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

| 6.1 Personal precautions, pro                                  | te | ctive 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.  |
| 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

#### Jotamastic Smart Pack Comp A

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

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.

#### 7.3 Specific end use(s)

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

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

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

| Product/ingredien                    | name Exposure limit values   |
|--------------------------------------|--|
| xylene                               | EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin.   |
|                                      | •  |
|                                      | STEL: 441 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.   |
|                                      | TWA: 220 mg/m <sup>3</sup> 8 hours.  |
|                                      | TWA: 50 ppm 8 hours.   |
| ethylbenzene                         | EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed   |
| -                                    | through skin.  |
|                                      | STEL: 552 mg/m <sup>3</sup> 15 minutes.  |
|                                      | STEL: 125 ppm 15 minutes.  |
|                                      | TWA: 100 ppm 8 hours.  |
|                                      | TWA: 441 mg/m <sup>3</sup> 8 hours.  |
| butan-1-ol                           | EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed   |
|                                      | through skin.  |
|                                      | STEL: 154 mg/m <sup>3</sup> 15 minutes.  |
|                                      | STEL: 50 ppm 15 minutes.   |
| Recommended monitoring<br>procedures | If this product contains ingredients with exposure limits, personal, workplace<br>atmosphere or biological monitoring may be required to determine the effectiveness<br>of the ventilation or other control measures and/or the necessity to use respiratory<br>protective equipment. Reference should be made to monitoring standards, such as<br>the following: European Standard EN 689 (Workplace atmospheres - Guidance for<br>the assessment of exposure by inhalation to chemical agents for comparison with<br>limit values and measurement strategy) European Standard EN 14042 (Workplace<br>atmospheres - Guide for the application and use of procedures for the assessment<br>of exposure to chemical and biological agents) European Standard EN 482<br>(Workplace atmospheres - General requirements for the performance of procedures<br>for the measurement of chemical agents) Reference to national guidance<br>documents for methods for the determination of hazardous substances will also be<br>required. |

#### **DNELs/DMELs**

### Jotamastic Smart Pack Comp A

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

| Product/ingredient name                         | Exposure                        | Value                  | Population | Effects  |
|---|---------------------------------|------------------------|------------|----------|
| 2,2'-[(1-methylethylidene)bis(4,                | Short term Dermal               | 8.33 mg/               | Workers    | Systemic |
| 1-phenyleneoxymethylene)]bisoxirane             | Short term                      | kg bw/day<br>12.25 mg/ | Workers    | Systemic |
|   | Inhalation<br>Long term Dermal  | m³<br>8.33 mg/         | Workers    | Systemic |
|   | Long term                       | kg bw/day<br>12.25 mg/ | Workers    | Systemic |
|   | Inhalation<br>Short term Dermal | m³<br>3.571 mg/        | Consumers  | Systemic |
|   | Short term Oral                 | kg bw/day<br>0.75 mg/  | Consumers  | Systemic |
|   | Long term Dermal                | kg bw/day<br>3.571 mg/ | Consumers  | Systemic |
|   | Long term Oral                  | kg bw/day<br>0.75 mg/  | Consumers  | Systemic |
| Phenol, methylstyrenated                        | Long term Dermal                | kg bw/day<br>16.4 mg/  | Workers    | Systemic |
|   | Long term                       | kg bw/day<br>57 mg/m³  | Consumers  | Systemic |
|   | Inhalation<br>Long term Dermal  | 8 mg/kg                | Consumers  | Systemic |
|   | Long term                       | bw/day<br>28 mg/m³     | Consumers  | Systemic |
|   | Inhalation<br>Long term Oral    | 4 mg/kg<br>bw/day      | Consumers  | Systemic |
| xylene  | Short term<br>Inhalation        | 289 mg/m <sup>3</sup>  | Workers    | Systemic |
|   | Short term<br>Inhalation        | 289 mg/m³              | Workers    | Local    |
|   | Long term Dermal                | 180 mg/kg<br>bw/day    | Workers    | Systemic |
|   | Long term<br>Inhalation         | 77 mg/m <sup>3</sup>   | Workers    | Systemic |
|   | Long term Dermal                | 108 mg/kg<br>bw/day    | Consumers  | Systemic |
|   | Long term<br>Inhalation         |                        | Consumers  | Systemic |
|   | Long term Oral                  | 1.6 mg/kg<br>bw/day    | Consumers  | Systemic |
| hydrocarbons, C9, aromatics, (<0.1%<br>Benzene) | Long term Dermal                | 25 mg/kg<br>bw/day     | Workers    | Systemic |
| 7   | Long term<br>Inhalation         | 150 mg/m <sup>3</sup>  | Workers    | Systemic |
|   | Long term Dermal                | 11 mg/kg<br>bw/day     | Consumers  | Systemic |
|   | Long term<br>Inhalation         | 32 mg/m <sup>3</sup>   | Consumers  | Systemic |
|   | Long term Oral                  | 11 mg/kg<br>bw/day     | Consumers  | Systemic |
| ethylbenzene                                    | Short term<br>Inhalation        | 293 mg/m <sup>3</sup>  | Workers    | Local    |
|   | Long term Dermal                | 180 mg/kg<br>bw/day    | Workers    | Systemic |
|   | Long term<br>Inhalation         | 77 mg/m³               | Workers    | Systemic |
|   | Long term<br>Inhalation         | 15 mg/m³               | Consumers  | Systemic |
|   | Long term Oral                  | 1.6 mg/kg<br>bw/day    | Consumers  | Systemic |
| benzyl alcohol                                  | Short term                      | 450 mg/m <sup>3</sup>  | Workers    | Systemic |

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

| Inhalation       90 mg/m³       Workers       Systemic         Inhalation       90 mg/m³       Workers       Systemic         Inhalation       47 mg/kg       Workers       Systemic         Short term Dermal       47 mg/kg       Workers       Systemic         bw/day       Short term Dermal       9.5 mg/kg       Workers       Systemic         Short term Dermal       28.5 mg/       Consumers       Systemic         Short term Oral       25 mg/kg       Consumers       Systemic         bw/day       Short term Oral       25 mg/kg       Consumers       Systemic |   |  |  |
|---|---|--|--|
|   | 90 mg/m³  | Workers  | Systemic   |
|   | 47 mg/kg  | Workers  | Systemic   |
|   |   | Workers  | Systemic   |
|   | bw/day  | Consumers  | -  |
|   | kg bw/day   |  | -  |
|   | bw/day  |  |  |
|   | bw/day  | Consumers  | Systemic   |
|   |   | Consumers  | Systemic   |
| , term  |   | Consumers  | Systemic   |
|   | •   | Consumers  | Systemic   |
|   | 310 mg/m³   | Workers  | Local  |
| term Oral   |   | Consumers  | Systemic   |
|   |   | Consumers  | Local  |
|   | lation<br>t term<br>lation<br>t term Dermal<br>t term Dermal<br>t term Dermal<br>t term Oral<br>t term Oral<br>t term<br>lation<br>t term<br>lation<br>t term<br>lation<br>g term<br>lation<br>g term<br>lation<br>g term<br>lation<br>g term<br>lation<br>g term<br>lation<br>g term<br>lation<br>g term | lation<br>g term 90 mg/m <sup>3</sup><br>lation<br>t term Dermal 47 mg/kg<br>bw/day<br>g term Dermal 9.5 mg/kg<br>bw/day<br>t term Oral 28.5 mg/<br>kg bw/day<br>t term Oral 5.7 mg/kg<br>bw/day<br>g term Oral 5.7 mg/kg<br>bw/day<br>g term Oral 5.7 mg/kg<br>bw/day<br>g term 0ral 5.11 mg/m <sup>3</sup><br>lation<br>t term 0ral 3.125 mg/<br>kg bw/day<br>g term 0ral 3.125 mg/<br>kg bw/day | Jation<br>g term90 mg/m³WorkersJation<br>t term Dermal47 mg/kg<br>bw/dayWorkersg term Dermal9.5 mg/kg<br>bw/dayWorkerst term Dermal9.5 mg/kg<br>bw/dayWorkerst term Dermal28.5 mg/<br>kg bw/dayConsumerst term Oral25 mg/kg<br>bw/dayConsumersg term Oral5.7 mg/kg<br>bw/dayConsumersg term Oral5 mg/kg<br>bw/dayConsumersg term Oral5 mg/kg<br>bw/dayConsumersg term8.11 mg/m³<br>m³<br>g termConsumersation<br>t term40.55 mg/<br>m³<br>310 mg/m³Consumersg term3.125 mg/<br>kg bw/dayConsumersg term3.125 mg/<br>kg bw/dayConsumersg term5 mg/m³Consumers |

#### **PNECs**

| Product/ingredient name                  | Compartment Detail       | Value           | Method Detail |
|--|--------------------------|-----------------|---------------|
| 2,2'-[(1-methylethylidene)bis(4,         | Fresh water              | 0.006 mg/l      | -             |
| 1-phenyleneoxymethylene)]bisoxirane      |                          |                 |               |
|  | 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      | -             |
| Phenol, methylstyrenated                 | Fresh water              | 14 µg/l         | -             |
|  | Marine                   | 1.4 µg/l        | -             |
|  | Sewage Treatment         | 2.4 mg/l        | -             |
|  | Plant                    |                 |               |
|  | Fresh water sediment     | 52.9 mg/kg dwt  | -             |
|  | Marine water sediment    | 5.3 mg/kg dwt   | -             |
|  | Soil                     | 10.5 mg/kg dwt  | -             |
| xylene                                   | Fresh water              | 0.327 mg/l      | -             |
|  | Marine                   | 0.327 mg/l      | -             |
|  | Sewage Treatment         | 6.58 mg/l       | -             |
|  | Plant                    |                 |               |
|  | 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                    |                 |               |
|  | Fresh water sediment     | 13.7 mg/kg dwt  | -             |
|  | Soil                     | 2.68 mg/kg dwt  | -             |
|  | Secondary Poisoning      | 20 mg/kg        | -             |
| benzyl alcohol                           | Fresh water              | 1 mg/l          | -             |
|  | Marine                   | 0.1 mg/l        | -             |
|  | Sewage Treatment         | 39 mg/l         | -             |
|  | Plant                    |                 |               |
|  | Fresh water sediment     | 5.27 mg/kg dwt  | -             |
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| lotamastic Smart Pack Comp A |   |                  |   |  |  |  |
|------------------------------|---|------------------|---|--|--|--|
| SECTION 8: Exposure          | ECTION 8: Exposure controls/personal protection |                  |   |  |  |  |
|                              | Marine water sediment                           | 0.527 mg/kg dwt  | - |  |  |  |
|                              | Soil  | 0.456 mg/kg dwt  | - |  |  |  |
| butan-1-ol                   | Fresh water                                     | 0.082 mg/l       | - |  |  |  |
|                              | Marine  | 0.0082 mg/l      | - |  |  |  |
|                              | Sewage Treatment                                | 2476 mg/l        | - |  |  |  |
|                              | Plant   |                  |   |  |  |  |
|                              | Fresh water sediment                            | 0.178 mg/kg dwt  | - |  |  |  |
|                              | Marine water sediment                           | 0.0178 mg/kg dwt | - |  |  |  |
|                              | Soil  | 0.015 mg/kg dwt  | - |  |  |  |

| 8.2 Exposure controls            |   |
|----------------------------------|---|
| Appropriate engineering controls | Provide adequate ventilation. Where reasonably practicable, this should be<br>achieved by the use of local exhaust ventilation and good general extraction. If<br>these are not sufficient to maintain concentrations of particulates and solvent<br>vapours below the OEL, suitable respiratory protection must be worn.   |
| Individual protection meas       | <u>ures</u>   |
| 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              | : Use safety eyewear designed to protect against splash of liquids.   |
| Skin protection                  |   |
| Gloves                           | <ul> <li>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.</li> <li>Always ensure that gloves are free from defects and that they are stored and used correctly.</li> <li>The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.</li> <li>Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.</li> <li>Wear suitable gloves tested to EN374.</li> <li>Not recommended, gloves(breakthrough time) 4 - 8 hours: Barricade, CPF 3, Responder, neoprene, butyl rubber, PVC</li> <li>Recommended, gloves(breakthrough time) &gt; 8 hours: Viton®, nitrile rubber, 4H, Teflon, polyvinyl alcohol (PVA)</li> </ul> |
|                                  | For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.<br>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                  | <ul> <li>Personnel should wear antistatic clothing made of natural fibres or of high-<br/>temperature-resistant synthetic fibres.</li> </ul>  |
| 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.   |

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| SECTION 8: Exposure controls/personal protection |   |  |  |  |
|--|---|--|--|--|
| 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**

| 9.1 Information on basic physica                | ind chemical properties  |
|---|--|
| <u>Appearance</u>                               |  |
| Physical state                                  | Liquid.  |
| Colour  | Various colours.   |
| Odour   | Characteristic. [Strong]   |
| Odour threshold                                 | Not applicable.  |
| рН  | Not applicable.  |
| Melting point/freezing point                    | Not applicable.  |
| Initial boiling point and<br>boiling range      | Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average: 253.<br>51°C (488.3°F)                           |
| Flash point                                     | Closed cup: 41°C   |
| Evaporation rate                                | Highest known value: 0.84 (ethylbenzene) Weighted average: 0.62compared with butyl acetate                           |
| Flammability (solid, gas)                       | Not applicable.  |
| Upper/lower flammability or<br>explosive limits | 0.8 - 13%  |
| Vapour pressure                                 | Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.17 kPa (1.28 mm Hg) (at 20°C) |
| Vapour density                                  | Highest known value: 11.7 (Air = 1) (epoxy resin (MW $\leq$ 700)). Weighted average: 9.81 (Air = 1)                  |
| Density   | 1.35 to 1.446 g/cm <sup>3</sup>  |
| Solubility(ies)                                 | Insoluble in the following materials: cold water and hot water.  |
| Partition coefficient: n-octanol/<br>water      | Not available.   |
| Auto-ignition temperature                       | Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9, aromatics, (<0.1% Benzene)).                      |
| Decomposition temperature                       | Not available.   |
| Viscosity                                       | Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)   |
| Explosive properties                            | Not available.   |
| Oxidising properties                            | Not available.   |

#### 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.            |

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## **SECTION 10: Stability and reactivity**

| 10.5 Incompatible materials           | : | Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
|---------------------------------------|---|--|
| 10.6 Hazardous 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 toxicological effects**

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, Phenol, methylstyrenated, epoxy resin (MW 700-1200). May produce an allergic reaction.

#### Acute toxicity

| Product/ingredient name           | Result                 | Species | Dose        | Exposure |  |
|-----------------------------------|------------------------|---------|-------------|----------|--|
| 2,2'-[(1-methylethylidene)bis (4, | LD50 Dermal            | Rabbit  | 20 g/kg     | -        |  |
| 1-phenyleneoxymethylene)]         |                        |         |             |          |  |
| bisoxirane                        |                        |         |             |          |  |
|                                   | 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 Gas.   | Rabbit  | 4000 ppm    | 4 hours  |  |
| 5                                 | LD50 Dermal            | Rabbit  | >5000 mg/kg | -        |  |
|                                   | LD50 Oral              | Rat     | 3500 mg/kg  | -        |  |
| benzyl alcohol                    | LD50 Oral              | Rat     | 1230 mg/kg  | -        |  |
| butan-1-ol                        | LD50 Oral              | Rat     | 790 mg/kg   | -        |  |

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

| Route | ATE value                                    |  |  |
|-------|--|--|--|
|       | 21527.8 mg/kg<br>18689.5 mg/kg<br>115.5 mg/l |  |  |

Irritation/Corrosion

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| <b>SECTION 11: Toxicol</b>  | ogical informatio      | n       |       |                  |             |  |
|---|------------------------|---------|-------|------------------|-------------|--|
| Product/ingredient name   | Result                 | Species | Score | Exposure         | Observation |  |
| 2,2'-[(1-methylethylidene)bis<br>(4,<br>1-phenyleneoxymethylene)]<br>bisoxirane | Eyes - Severe irritant | Rabbit  | -     | 24 hours 2<br>mg | -           |  |
|   | Skin - Mild irritant   | Rabbit  | -     | 500 mg           | -           |  |
| Conclusion/Summary  | : Not available.       |         |       |                  | •           |  |
| Sensitisation   |                        |         |       |                  |             |  |
| <b>Conclusion/Summary</b>   | : Not available.       |         |       |                  |             |  |
| Mutagenicity  |                        |         |       |                  |             |  |
| <b>Conclusion/Summary</b>   | : Not available.       |         |       |                  |             |  |
| Carcinogenicity   |                        |         |       |                  |             |  |
| <b>Conclusion/Summary</b>   | : Not available.       |         |       |                  |             |  |
| Reproductive toxicity   |                        |         |       |                  |             |  |
| <b>Conclusion/Summary</b>   | : Not available.       |         |       |                  |             |  |
| <u>Teratogenicity</u>   |                        |         |       |                  |             |  |
| <b>Conclusion/Summary</b>   | : Not available.       |         |       |                  |             |  |
| Specific target organ toxicity (single exposure)                                |                        |         |       |                  |             |  |

| Product/ingredient name                      | Category   | Route of exposure | Target organs   |
|--|------------|-------------------|---|
| xylene                                       | Category 3 | Not applicable.   | Respiratory tract irritation                            |
| hydrocarbons, C9, aromatics, (<0.1% Benzene) | Category 3 | Not applicable.   | Respiratory tract<br>irritation and<br>Narcotic effects |
| butan-1-ol                                   | Category 3 | Not applicable.   | Respiratory tract<br>irritation and<br>Narcotic effects |

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

| Product/ingredient name | Category   | Route of exposure | Target organs  |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene            | Category 2 | Not determined    | hearing organs |

Aspiration hazard

| Product/ingredient name                      | Result                         |
|--|--------------------------------|
| xylene                                       | ASPIRATION HAZARD - Category 1 |
| hydrocarbons, C9, aromatics, (<0.1% Benzene) | ASPIRATION HAZARD - Category 1 |
| ethylbenzene                                 | ASPIRATION HAZARD - Category 1 |

#### **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.

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## **SECTION 12: Ecological information**

| Product/ingredient name                         | Result                | Species                    | Exposure |
|---|-----------------------|----------------------------|----------|
| 2,2'-[(1-methylethylidene)bis<br>(4,            | Acute EC50 1.4 mg/l   | Daphnia                    | 48 hours |
| 1-phenyleneoxymethylene)]                       |                       |                            |          |
| bisoxirane                                      |                       |                            |          |
|   | Acute LC50 3.1 mg/l   | Fish - pimephales promelas | 96 hours |
|   | Chronic NOEC 0.3 mg/l | Fish                       | 21 days  |
| hydrocarbons, C9,<br>aromatics, (<0.1% Benzene) | Acute EC50 <10 mg/l   | Daphnia                    | 48 hours |
|   | Acute IC50 <10 mg/l   | Algae                      | 72 hours |
|   | Acute LC50 <10 mg/l   | Fish                       | 96 hours |
| ethylbenzene                                    | Acute EC50 7.2 mg/l   | Algae                      | 48 hours |
| -   | Acute EC50 2.93 mg/l  | Daphnia                    | 48 hours |
|   | Acute LC50 4.2 mg/l   | Fish                       | 96 hours |

quantities. This material is toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

| Product/ingredient name   | Aquatic half-life | Photolysis | Biodegradability       |
|---|-------------------|------------|------------------------|
| 2,2'-[(1-methylethylidene)bis<br>(4,<br>1-phenyleneoxymethylene)]       | -                 | -          | Not readily            |
| bisoxirane<br>xylene<br>hydrocarbons, C9,<br>aromatics, (<0.1% Benzene) | -                 | -          | Readily<br>Not readily |
| ethylbenzene<br>benzyl alcohol  | -                 | -          | Readily<br>Readily     |

#### 12.3 Bioaccumulative potential

| Product/ingredient name                         | LogPow       | BCF         | Potential |
|---|--------------|-------------|-----------|
| 2,2'-[(1-methylethylidene)bis<br>(4,            | 2.64 to 3.78 | 31          | low       |
| 1-phenyleneoxymethylene)]                       |              |             |           |
| bisoxirane<br>Phenol, methylstyrenated          | 3.627        | _           | low       |
| xylene  | 3.12         | 8.1 to 25.9 | low       |
| hydrocarbons, C9,<br>aromatics, (<0.1% Benzene) | -            | 10 to 2500  | high      |
| ethylbenzene                                    | 3.6          | -           | low       |
| benzyl alcohol                                  | 0.87         | <100        | low       |
| butan-1-ol                                      | 1            | -           | low       |

| 12.4 Mobility in soil                                  |                  |
|--|------------------|
| Soil/water partition<br>coefficient (K <sub>oc</sub> ) | : Not available. |
| Mobility   | : Not available. |

| 12.5 Results of PBT and vPvB assessment |                   |  |  |
|---|-------------------|--|--|
| PBT                                     | : Not applicable. |  |  |
| vPvB                                    | : Not applicable. |  |  |

#### **12.6 Other adverse effects** : No known significant effects or critical hazards.

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## Jotamastic Smart Pack Comp A

## **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<br>and any regional local authority requirements. Dispose of surplus and non-<br>recyclable products via a licensed waste disposal contractor. Waste should not be<br>disposed of untreated to the sewer unless fully compliant with the requirements of<br>all authorities 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<br>catalogue (EWC) | : 08 01 11* Waste paint and varnish containing organic solvents or other dangerous<br>substances   |
| Packaging                         |  |
| Methods of disposal               | : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling 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 Paint 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  |

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   | ΙΑΤΑ   |
|---------|----------------------|--|--|
| UN1263  | UN1263               | UN1263   | UN1263   |
| Paint   | Paint                | Paint. Marine pollutant<br>(epoxy resin (MW ≤<br>700))   | Paint  |
|         |                      | 3  | 3  |
|         |                      |  |  |
|         | UN1263<br>Paint<br>3 | UN1263     UN1263       Paint     Paint       3     3       Image: Constraint of the second sec | UN1263UN1263UN1263PaintPaintPaint. Marine pollutant<br>(epoxy resin (MW $\leq$<br>700))333Image: Constraint of the second s |

| SECTION 14:  | Transp      | or | tinformation  |      |   |
|--|-------------|----|---|------|---|
| 14.5<br>Environmental<br>hazards                                 | Yes.        |    | Yes.  | Yes. | Yes. The<br>environmentally<br>hazardous substance<br>mark is not required. |
| Additional information   | <u>tion</u> |    |   |      |   |
| ADR/RID  |             | :  | Tunnel restriction code: (D/E)<br>Hazard identification number:   | 30   |   |
| ADN  |             | :  | The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ .   |      |   |
| IMDG   |             | :  | The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg <b>Emergency schedules</b> F-E, <u>S-E</u>   |      |   |
| ΙΑΤΑ   |             |    | The environmentally hazardous substance mark may appear if required by other transportation regulations.  |      |   |
| 14.6 Special precau<br>user                                      | tions for   |    | <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 Transport in bu<br>according to Annex<br>Marpol and the IBC | ll of       | :  | Not applicable.   |      |   |

## **SECTION 15: Regulatory information**

| 15.1 Safety, health and env   | ironmental regulations/legislation specific for the substance or mixture   |
|---|--|
| EU Regulation (EC) No. 19   | <u>)07/2006 (REACH)</u>  |
| Annex XIV - List of subst   | ances subject to authorisation   |
| Annex XIV   |  |
| None of the components  | are listed.  |
| Substances of very hig  | h 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.   |
| Europe inventory  | : At least one component is not listed.  |
| Ozone depleting substar   | <u>1ces (1005/2009/EU)</u>   |
| Not listed.   |  |
| Prior Informed Consent (<br>Not listed.   | <u>(PIC) (649/2012/EU)</u>   |
| <u>Seveso Directive</u><br>This product may add to th   | ne calculation for determining whether a site is within the scope of the Seveso Directive on   |

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

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|---|------------------------|--------------|-------------|-------|

## **SECTION 15: Regulatory information**

| 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 Conve     | ention List Schedules I, II & III Chemicals   |
| Not listed.               |   |
| Montreal Protocol (Anne   | xes A, B, C, E)   |
| Not listed.               |   |
| Stockholm Convention of   | on Persistent Organic Pollutants  |
| Not listed.               |   |
| Rotterdam Convention o    | 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 | : ATE = Acute Toxicity Estimate   |
|-------------------|---|
| acronyms          | CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. |
| -                 | 1272/2008]  |
|                   | DMEL = Derived Minimal Effect Level   |
|                   | DNEL = Derived No Effect Level  |
|                   | EUH statement = CLP-specific Hazard statement                                 |
|                   | PBT = Persistent, Bioaccumulative and Toxic                                   |
|                   | PNEC = Predicted No Effect Concentration                                      |
|                   | RRN = REACH Registration Number   |
|                   | vPvB = Very Persistent and Very Bioaccumulative                               |

#### 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 2, H411 | Calculation method    |

#### Full text of abbreviated H statements

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|--------------------------------|--|---|--|
|                                | exposure.  |   |  |
| H373                           | May cause damage to organs through prolonged or repeated     |   |  |
| H336                           | May cause drowsiness or dizziness.                           |   |  |
| H335                           | May cause respiratory irritation.                            | May cause respiratory irritation.             |  |
| H332                           | Harmful if inhaled.  | Harmful if inhaled.                           |  |
| H319                           | Causes serious eye irritation.                               | , ,   |  |
| H318                           | Causes serious eye damage.                                   |   |  |
| H317                           | May cause an allergic skin reaction.                         | May cause an allergic skin reaction.          |  |
| H315                           | Causes skin irritation.                                      |   |  |
| H312                           | Harmful in contact with skin.                                |   |  |
| H304                           | May be fatal if swallowed and enters airways.                | May be fatal if swallowed and enters airways. |  |
| H302                           | Harmful if swallowed.  |   |  |
| H226                           | Flammable liquid and vapour.                                 |   |  |
| H225                           | Highly flammable liquid and vapour.                          |   |  |

| <b>SECTION 16: Other information</b>   |  |  |
|--|--|--|
| H411<br>H412                           | Toxic to aquatic life with long lasting effects.<br>Harmful to aquatic life with long lasting effects. |  |
| Full text of classifications [CLP/GHS] |  |  |

| I dil text of classifications |   |            |
|-------------------------------|---|------------|
| Acute Tox. 4, H302            | ACUTE TOXICITY (oral) - Category 4          |            |
| Acute Tox. 4, H312            | ACUTE TOXICITY (dermal) - Category 4        |            |
| Acute Tox. 4, H332            | ACUTE TOXICITY (inhalation) - Category 4    |            |
| Aquatic Chronic 2, H411       | LONG-TERM (CHRONIC) AQUATIC HAZARD -        | Category 2 |
| Aquatic Chronic 3, H412       | LONG-TERM (CHRONIC) AQUATIC HAZARD -        | Category 3 |
| Asp. Tox. 1, H304             | ASPIRATION HAZARD - Category 1              |            |
| Eye Dam. 1, H318              | SERIOUS EYE DAMAGE/EYE IRRITATION - Ca      | tegory 1   |
| Eye Irrit. 2, H319            | SERIOUS EYE DAMAGE/EYE IRRITATION - Ca      | itegory 2  |
| Flam. Liq. 2, H225            | FLAMMABLE LIQUIDS - Category 2              |            |
| Flam. Liq. 3, H226            | FLAMMABLE LIQUIDS - Category 3              |            |
| Skin Irrit. 2, H315           | SKIN CORROSION/IRRITATION - Category 2      |            |
| Skin Sens. 1, H317            | SKIN SENSITISATION - Category 1             |            |
| Skin Sens. 1B, H317           | SKIN SENSITISATION - Category 1B            |            |
| STOT RE 2, H373               | SPECIFIC TARGET ORGAN TOXICITY - REPE       | ATED       |
|                               | EXPOSURE - Category 2                       |            |
| STOT SE 3, H335               | SPECIFIC TARGET ORGAN TOXICITY - SINGL      | E EXPOSURE |
|                               | (Respiratory tract irritation) - Category 3 |            |
| STOT SE 3, H336               | SPECIFIC TARGET ORGAN TOXICITY - SINGL      | E EXPOSURE |
|                               | (Narcotic effects) - Category 3             |            |
| Date of printing              | : 03.07.2019                                |            |
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| revision                      |   |            |
| Date of previous issue        | : 23.05.2019                                |            |
| Version                       | : 2   |            |
| Notice to seeden              |   |            |

#### 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.

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## **Jotamastic Smart Pack Comp A**

## Exposure Scenario: Use in coatings -

Industrial use

| Sector of Use                       | : Industrial use               |
|-------------------------------------|--------------------------------|
| Process Category                    | : PROC05 PROC07 PROC08a PROC10 |
| Environmental release category(ies) | : ERC4                         |

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

## **Operational conditions and risk management measures**

#### Control of worker exposure

| Frequency and duration of use           | : Covers daily exposures up to 8 hours  |
|---|---|
| General - Operational conditions        | : Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes<br>a good basic standard of occupational hygiene is implemented   |
| General - Risk management measures      | : Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.<br>Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8<br>for information on appropriate personal protective equipment. |
| Type of activity or process             | Risk management measures  |
| Preparation of material for application | : Provide a good standard of controlled ventilation (10 to 15 air changes per hour).  |
| Roller, spreader, flow application      | : Provide extract ventilation to points where emissions occur.  |
| Spraying - Manual                       | : Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Wear a respirator conforming to EN140 with type A/P2 filter or better.  |

#### Control of environmental exposure

| Organisational measures to prevent/limit release from site                  | : Prevent environmental discharge consistent with regulatory requirements.  |
|---|---|
| Conditions and measures related to external treatment of waste for disposal | : External treatment and disposal of waste should comply with applicable local and/or national<br>regulations. See Section 13 for additional waste treatment information. |
| Conditions and measures related to external recovery of waste               | : External recovery and recycling of waste should comply with applicable local and/or national regulations.   |

#### Additional information

The exposure scenario for the mixture is based on the following substances:

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## **Jotamastic Smart Pack Comp A**

#### Exposure Scenario: Use in coatings -

Professional use

| Sector of Use                       | : Professional use             |
|-------------------------------------|--------------------------------|
| Process Category                    | : PROC05 PROC08a PROC10 PROC11 |
| Environmental release category(ies) | : ERC8a ERC8d                  |

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

### **Operational conditions and risk management measures**

#### Control of worker exposure

| Frequency and duration of use                        | : Covers daily exposures up to 8 hours  |
|--|---|
| General - Operational conditions                     | : Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented  |
| General - Risk management measures                   | : Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.<br>Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8<br>for information on appropriate personal protective equipment. |
| Type of activity or process                          | Risk management measures  |
| Preparation of material for application -<br>Indoor  | : Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour.<br>or   |
|  | Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with type A/P2 filter or better.   |
| Preparation of material for application -<br>Outdoor | : Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 1 hour.<br>or   |
|  | Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 with type A/P2<br>filter or better.  |
| Equipment cleaning and maintenance                   | : Drain down system prior to equipment break-in or maintenance. Avoid carrying out activities involving exposure for more than 4 hours.   |
| Roller, spreader, flow application - Indoor          | : Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with type A/P2 filter or better.   |
| Roller, spreader, flow application - Outdoor         | : Ensure operation is undertaken outdoors. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.   |
| Spraying - Manual - Indoor                           | : Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.  |
| Spraying - Manual - Outdoor                          | : Ensure operation is undertaken outdoors. Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better.   |

#### Control of environmental exposure

| Organisational measures to prevent/limit release from site                  | : Prevent environmental discharge consistent with regulatory requirements.  |
|---|---|
| Conditions and measures related to external treatment of waste for disposal | : External treatment and disposal of waste should comply with applicable local and/or national<br>regulations. See Section 13 for additional waste treatment information. |
| Conditions and measures related to external recovery of waste               | <ul> <li>External recovery and recycling of waste should comply with applicable local and/or national<br/>regulations.</li> </ul>   |
| Additional information  |   |

The exposure scenario for the mixture is based on the following substances:

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