

### Solvalitt Alu

Section 1. Identi	fication
GHS product identifier	: Solvalitt Alu
Other means of identification	: Not available.
Product code	: 23640
Product description	: Paint.
Product type	: Liquid.
Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	
Professional low-energy pa Professional spray painting Professional painting, indoo Professional spray painting Professional painting, outdo Use in coatings - Industrial Use in coatings - Profession	or brush/roller , outdoor (Level II) oor brush/roller use nal use
Supplier's details	: Jotun (Singapore) Pte Ltd 37 Tuas View Crescent Singapore 637236 Phone: 6508 8288 Fax: 6265 7484 SDSJotun@jotun.com
Emergency telephone number	: Jotun (Singapore) Pte Ltd, Tel: 6508 8288

## Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3</li> </ul>
GHS label elements	
Hazard pictograms	
Signal word	: Warning.
Hazard statements	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>(central nervous system (CNS))</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	

## Section 2. Hazards identification

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>P260 - Do not breathe vapour or spray.</li> </ul>
Response	<ul> <li>P314 - Get medical advice/attention if you feel unwell.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>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	<ul> <li>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403 + P235 - Keep cool.</li> </ul>
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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

## Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Other means of identification	:	Not available.
<b>CAS number/other identifiers</b>		
CAS number	÷	Not applicable.
EC number	÷	Mixture.
Product code	:	23640
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Ingredient name	%	CAS number
xylene	≥10 - ≤25	1330-20-7
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	<10	64742-82-1
ethylbenzene	<10	100-41-4
hydrocarbons, C9, aromatics	≤7.7	64742-95-6
butan-1-ol	≤1.7	71-36-3

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

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

Chemical formula

: Not applicable.

## Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First aid measures

Section 4.1 list al	
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do no induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to ar unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/e	
Potential acute health effect	-
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>)ms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate med	cal attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
See toxicological informatio	(Section 11)

# Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>
Date of issue	: 16.05.2023 3/11

## Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmenta pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and material for con	tainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools an explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools an explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with nor combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling		
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name		Exposure limits	
xylene		Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 651 mg/m <sup>3</sup> 15 minutes. PEL (short term): 150 ppm 15 minutes. PEL (long term): 434 mg/m <sup>3</sup> 8 hours. PEL (long term): 100 ppm 8 hours.	
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		PEL (long term): 100 ppm 8 hours. Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 100 ppm 8 hours.	
ethylbenzene		PEL (long term): 525 mg/m <sup>3</sup> 8 hours. Workplace Safety and Health Act (Singapore, 2/2006). Notes: PEL (long term): 100 ppm 8 hours. PEL (long term): 434 mg/m <sup>3</sup> 8 hours. Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 543 mg/m <sup>3</sup> 15 minutes. PEL (short term): 543 mg/m <sup>3</sup> 15 minutes.	
butan-1-ol		<ul> <li>PEL (short term): 125 ppm 15 minutes.</li> <li>Workplace Safety and Health Act (Singapore, 2/2006).</li> <li>PEL (short term): 152 mg/m<sup>3</sup> 15 minutes.</li> <li>PEL (short term): 50 ppm 15 minutes.</li> </ul>	
Appropriate engineering controls	ventilation or other engineering contaminants below any recomm also need to keep gas, vapour of limits. Use explosion-proof vent		
Environmental exposure controls	they comply with the requiremer cases, fume scrubbers, filters or	ork process equipment should be checked to ensure of environmental protection legislation. In some r engineering modifications to the process reduce emissions to acceptable levels.	
Individual protection meas	ures		
Hygiene measures	eating, smoking and using the la Appropriate techniques should b	e thoroughly after handling chemical products, before avatory and at the end of the working period. be used to remove potentially contaminated clothing. fore reusing. Ensure that eyewash stations and workstation location.	
Eye/face protection	assessment indicates this is neo gases or dusts. If contact is pos	O 16321-1:2022 should be used when a risk cessary to avoid exposure to liquid splashes, mists, ssible, the following protection should be worn, s a higher degree of protection: chemical splash	
Skin protection			
Hand protection	resistance to any individual or co The breakthrough time must be The instructions and information storage, maintenance and repla Gloves should be replaced regu material. Always ensure that gloves are fr correctly. The performance or effectivenes chemical damage and poor mai	greater than the end use time of the product. a provided by the glove manufacturer on use, cement must be followed. larly and if there is any sign of damage to the glove ree from defects and that they are stored and used ass of the glove may be reduced by physical/ intenance. ect the exposed areas of the skin but should not be	

## Section 8. Exposure controls/personal protection

	Wear suitable gloves tested to ISO 374-1:2016. May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), butyl
	rubber (> 0.4 mm), Viton® (> 0.7 mm)
	Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm)
	Recommended, gloves(breakthrough time) > 8 hours: $4H/Silver Shield \otimes (> 0.07)$
	mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm), nitrile rubber (> 0.4 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	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

Appearance         Physical state       : Liquid.         Colour       : Aluminium         Odour       : Characteristic.         Odour threshold       : Not available.         pH       : Not applicable.         Beiling point       : Not applicable.         Boiling point       : Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average: 147.34°C (297.2°F)         Flash point       : Closed cup: 25°C (77°F)         Burning time       : Not applicable.         Burning time       : Not applicable.         Evaporation rate       : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.62compared with butyl acetate         Flammability (solid, gas)       : Not applicable.         Lower and upper explosive (flammabile) limits       : 0.8 - 11.3%         Vapour pressure       : Highest known value: 2.7 kPa (20.3 mm Hg) (at 20°C) (hydrocarbons, C9-C12, n-aikanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 1.21 kPa (9.08 mm Hg) (at 20°C)         Vapour pressure       : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)         Relative density       : 1.148 to 1.267 g/cm³         Solubility in water       : Not available.         Partition coefficient: n- cotanol/water       : Not available.         Auto-ignition temperature       : Lowest known value: 280 to 470°C (536 to 878°F) (				
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(297.2°F)         Flash point       : Closed cup: 25°C (77°F)         Burning time       : Not applicable.         Burning rate       : Not applicable.         Evaporation rate       : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.62compared with butyl acetate         Flammability (solid, gas)       : Not applicable.         Lower and upper explosive (flammable) limits       : 0.8 - 11.3%         Vapour pressure       : Highest known value: 2.7 kPa (20.3 mm Hg) (at 20°C) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 1.21 kPa (9.08 mm Hg) (at 20°C)         Vapour density       : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)         Relative density       : 1.148 to 1.267 g/cm³         Solubility       : Insoluble in the following materials: cold water and hot water.         Solubility in water       : Not available.         Partition coefficient: n-octanol/water       : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)).         Decomposition temperature       : Not available.         SADT       : Not available.	Melting point	1	Not applicable.	
Burning time       : Not applicable.         Burning rate       : Not applicable.         Evaporation rate       : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.62compared with butyl acetate         Flammability (solid, gas)       : Not applicable.         Lower and upper explosive (flammable) limits       : 0.8 - 11.3%         Vapour pressure       : Highest known value: 2.7 kPa (20.3 mm Hg) (at 20°C) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 1.21 kPa (9.08 mm Hg) (at 20°C)         Vapour density       : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)         Relative density       : 1.148 to 1.267 g/cm³         Solubility       : Insoluble in the following materials: cold water and hot water.         Solubility in water       : Not available.         Partition coefficient: n-octanol/water       : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)).         Decomposition temperature       : Not available.         SADT       : Not available.	Boiling point	1		
Burning rate       : Not applicable.         Evaporation rate       : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.62compared with butyl acetate         Flammability (solid, gas)       : Not applicable.         Lower and upper explosive (flammable) limits       : 0.8 - 11.3%         Vapour pressure       : Highest known value: 2.7 kPa (20.3 mm Hg) (at 20°C) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 1.21 kPa (9.08 mm Hg) (at 20°C)         Vapour density       : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)         Relative density       : 1.148 to 1.267 g/cm³         Solubility       : Insoluble in the following materials: cold water and hot water.         Solubility in water       : Not available.         Partition coefficient: n-octanol/water       : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)).         Decomposition temperature       : Not available.         SADT       : Not available.	Flash point	1	Closed cup: 25°C (77°F)	
Evaporation rate: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.62compared with butyl acetateFlammability (solid, gas): Not applicable.Lower and upper explosive (flammable) limits: 0.8 - 11.3%Vapour pressure: Highest known value: 2.7 kPa (20.3 mm Hg) (at 20°C) (hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 1.21 kPa (9.08 mm Hg) (at 20°C)Vapour density: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)Relative density: 1.148 to 1.267 g/cm³Solubility: Insoluble in the following materials: cold water and hot water.Solubility in water: Not available.Partition coefficient: n- octanol/water: Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)).Decomposition temperature: Not available.SADT: Not available.	Burning time	4	Not applicable.	
Flammability (solid, gas)       : Not applicable.         Lower and upper explosive (flammable) limits       : 0.8 - 11.3%         Vapour pressure       : Highest known value: 2.7 kPa (20.3 mm Hg) (at 20°C) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 1.21 kPa (9.08 mm Hg) (at 20°C)         Vapour density       : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)         Relative density       : 1.148 to 1.267 g/cm³         Solubility       : Insoluble in the following materials: cold water and hot water.         Solubility       : Not available.         Partition coefficient: n-octanol/water       : Not available.         Auto-ignition temperature       : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)).         Decomposition temperature       : Not available.         SADT       : Not available.	Burning rate	4	Not applicable.	
Lower and upper explosive (flammable) limits: 0.8 - 11.3%Vapour pressure: Highest known value: 2.7 kPa (20.3 mm Hg) (at 20°C) (hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 1.21 kPa (9.08 mm Hg) (at 20°C)Vapour density: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1) Relative densityRelative density: 1.148 to 1.267 g/cm³Solubility: Insoluble in the following materials: cold water and hot water.Solubility: Not available.Partition coefficient: n- octanol/water: Not available.Auto-ignition temperature: Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)).Decomposition temperature: Not available.SADT: Not available.	Evaporation rate	:		I
(flammable) limitsVapour pressure: Highest known value: 2.7 kPa (20.3 mm Hg) (at 20°C) (hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 1.21 kPa (9.08 mm Hg) (at 20°C)Vapour density: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)Relative density: 1.148 to 1.267 g/cm³Solubility: Insoluble in the following materials: cold water and hot water.Solubility: Not available.Partition coefficient: n- octanol/water: Not available.Auto-ignition temperature: Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)).Decomposition temperature: Not available.SADT: Not available.	Flammability (solid, gas)	1	Not applicable.	
alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 1.21 kPa (9.08 mm Hg) (at 20°C)         Vapour density       : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)         Relative density       : 1.148 to 1.267 g/cm³         Solubility       : Insoluble in the following materials: cold water and hot water.         Solubility in water       : Not available.         Partition coefficient: n- octanol/water       : Not available.         Auto-ignition temperature       : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)).         Decomposition temperature       : Not available.         SADT       : Not available.		:	0.8 - 11.3%	
Relative density       : 1.148 to 1.267 g/cm³         Solubility       : Insoluble in the following materials: cold water and hot water.         Solubility in water       : Not available.         Partition coefficient: n- octanol/water       : Not available.         Auto-ignition temperature       : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)).         Decomposition temperature       : Not available.         SADT       : Not available.	Vapour pressure	:	alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 1.21 kPa	
Solubility: Insoluble in the following materials: cold water and hot water.Solubility in water: Not available.Partition coefficient: n- octanol/water: Not available.Auto-ignition temperature: Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)).Decomposition temperature: Not available.SADT: Not available.	Vapour density	1	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)	
Solubility in water: Not available.Partition coefficient: n- octanol/water: Not available.Auto-ignition temperature: Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)).Decomposition temperature: Not available.SADT: Not available.	Relative density	1	1.148 to 1.267 g/cm <sup>3</sup>	
Partition coefficient: n- octanol/water       : Not available.         Auto-ignition temperature       : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)).         Decomposition temperature SADT       : Not available.         : Not available.       : Not available.	Solubility	1	Insoluble in the following materials: cold water and hot water.	
octanol/water         Auto-ignition temperature       : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)).         Decomposition temperature       : Not available.         SADT       : Not available.	Solubility in water	4	Not available.	
alkanes, isoalkanes, cyclics, aromatics (2-25%)).         Decomposition temperature       : Not available.         SADT       : Not available.		;	Not available.	
SADT : Not available.	Auto-ignition temperature	:		
	Decomposition temperature	1	Not available.	
Date of issue : 16.05.2023 6/11	SADT	:	Not available.	
	Date of issue		: 16.05.2023	6/11

## Section 9. Physical and chemical properties

Viscosity

: Dynamic: Highest known value: 2.95 cP (butan-1-ol) Weighted average: 0.72 cP Kinematic: Highest known value: 0.77 cSt (ethylbenzene) (OECD 114) Kinematic (40C): >20.5 cSt

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
Chemical stability	: The product is stable.	
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld braze, solder, drill, grind or expose containers to heat or sources of ignition.	,
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
SADT	: Not available.	

## Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rat	-	87 milligrams 8 hours 60 microliters	-

### **Sensitisation**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	 Route of exposure	Target organs

## Section 11. Toxicological information

6			
xylene	Category 3	-	Respiratory tract irritation
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 3	-	Narcotic effects
hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

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

Name		Route of exposure	Target organs
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 1	-	central nervous system (CNS)
ethylbenzene	Category 2	-	hearing organs

### **Aspiration hazard**

Name	Result
xylene hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
ethylbenzene hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

# Information on likely routes : Not available. of exposure

### Potential acute health effects

Eye contact	Causes serious eye irritation.	
Inhalation	May cause respiratory irritation.	
Skin contact	Causes skin irritation.	
Ingestion	No known significant effects or critical hazards.	
Symptoms related to the phy	al, chemical and toxicological characteristics	
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing	
Skin contact	Adverse symptoms may include the following: irritation redness	
Ingestion	No specific data.	
Delayed and immediate effect	as well as chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
<u>Long term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health eff	<u>S</u>	
Not available.		
General	May cause damage to organs through prolonged or repeated exposure	
Carcinogenicity	No known significant effects or critical hazards.	
Date of issue	: 16.05.2023	

## Section 11. Toxicological information

### Mutagenicity

- : No known significant effects or critical hazards.
- Teratogenicity
- : No known significant effects or critical hazards.
- Developmental effects
- : No known significant effects or critical hazards.
- Fertility effects
- : No known significant effects or critical hazards.

### Numerical measures of toxicity

### Acute toxicity estimates

Route	ATE value
Oral	35070.07 mg/kg
Dermal	5020.81 mg/kg
Inhalation (vapours)	66.41 mg/l

## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)	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 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
hydrocarbons, C9, aromatics	Acute EC50 <10 mg/l	Daphnia	48 hours
-	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours

### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	-	Not readily
ethylbenzene hydrocarbons, C9, aromatics	-	-	Readily Not readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	8.1 to 25.9	low
hydrocarbons, C9-C12, n-	-	10 to 2500	high
alkanes, isoalkanes, cyclics, aromatics (2-25%)			
ethylbenzene	3.6	-	low
hydrocarbons, C9, aromatics	-	10 to 2500	high
butan-1-ol	1	-	low

### Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

## Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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.

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

## Section 14. Transport information

	UN	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	Paint	Paint	Paint	
Transport hazard class(es)	3	3	3	
Packing group				
Environmental hazards	No.	No.	No.	
Additional information	-	Emergency schedules F-E, <u>S-E</u>	The environmentally hazardous substance mark may appear if required by other transportation regulations.	

#### **Additional information**

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

	-,	
ADR / RID	nnel restriction code: (D/E) zard identification number: 30	
	R/RID: Viscous substance. Not restricted, ref. chapter 2.2.3.1.5 eptacles < 450 litre capacity).	(applicable to
IMDG	DG: Viscous substance. Transport in accordance with paragraph plicable to receptacles < 450 litre capacity).	2.3.2.5
Special precautions for user	<b>Insport within user's premises:</b> always transport in closed cor ight and secure. Ensure that persons transporting the product ke event of an accident or spillage.	
Transport in bulk according to IMO instruments	t available.	

## Section 15. Regulatory information

### Singapore - hazardous chemicals under government control

None.

## Section 16. Other information

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

Indicates information that has changed from previously issued version.

### Notice to reader

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

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.