#### Conforms to Regulation (EC) No. 453/2010 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

Jotun Protects Property

SAF<mark>ETY D</mark>ATA SHEET

### Jotatemp 650

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

1.1 Product identifier	
Product name	: Jotatemp 650
Product code	: 9240
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.

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

**Identified uses** 

Uses in Coatings - Professional use

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

MANUFACTURER/SUPPLIER: 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

Product definition : Mixture

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

Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

2.2 Label elements Hazard pictograms



Signal word	: Danger.
Hazard statements	: Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

Data	- 4	
Date	01	issue

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

General	: Not applicable.
Prevention	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Avoid release to the environment.
Response	<ul> <li>IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.</li> </ul>
Storage	: Store in a well-ventilated place. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: Not applicable.

#### 2.3 Other hazards

Other hazards which do		None known.
not result in classification		

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

Substance/mixture	: Mixture				
Product/ingredient name	Identifiers	%	<u>Classification</u> Regulation (EC) No. 1272/2008	Туре	Notes
Productingredient name	luentmers	/0	[CLP]	Type	Notes
Solvent naphtha (petroleum), heavy arom.	REACH #: 01-2119463583-34 EC: 265-198-5 CAS: 64742-94-5	≥10 - ≤18	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1] [2]	Н
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]	С
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	[1] [2]	-
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤1,6	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d (Unborn child) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]	4
naphthalene	REACH #: 01-2119463583-34 EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2	≤0,18	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements 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 or vPvBs 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

### SECTION 3: Composition/information on ingredients

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General	<ul> <li>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.</li> </ul>
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show the container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
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.

#### 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.

Potential acute healt	h effects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: May be fatal if swallowed and enters airways.
Over-exposure signs	/symptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: Adverse symptoms may include the following: nausea or vomiting
4.3 Indication of any in	nmediate medical attention and special treatment needed
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

OLOTION 5. Thengh	ig medaulea	
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	n the substance or mixture	
Hazards from the substance or mixture	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase wi occur and the container may burst, with the risk of a subsequent explosion. Run to sewer may create fire or explosion hazard. This material is harmful to aquatic with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain	off iife
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incider 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	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection chemical incidents.	for

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

### 6.1 Personal precautions, protective 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".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

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

# 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### SECTION 7: Handling and storage

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

#### 7.1 Precautions for safe handling

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

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

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

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

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

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

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

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

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

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

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

#### Information on fire and explosion protection

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

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

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

Store in accordance with local regulations.

#### Notes on joint storage

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

#### Additional information on storage conditions

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

#### 7.3 Specific end use(s)

: Not available.

Recommendations Industrial sector specific solutions

: Not available.

### SECTION 8: Exposure controls/personal protection

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).

#### 8.1 Control parameters

**Occupational exposure limits** 

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

Product/ingredient name	Exposure limit values
Solvent naphtha (petroleum), heavy arom.	EH40-WEL (United Kingdom (UK), 1/2005).
	TWA: 125 mg/m <sup>3</sup> 8 hours. Form: All forms
	TWA: 25 ppm 8 hours. Form: All forms
xylene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 441 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
othylhanzana	
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 12/2011). 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.
toluene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	TWA: 191 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
naphthalene	EU OEL (Europe, 12/2009). Notes: list of indicative
	occupational exposure limit values
	TWA: 10 ppm 8 hours.
	TWA: 50 mg/m <sup>3</sup> 8 hours.
procedures atmosphere of the ventila	t contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectiveness tion or other control measures and/or the necessity to use respiratory uppment. Reference should be made to monitoring standards, such as
the following the assessm	: European Standard EN 689 (Workplace atmospheres - Guidance for ent of exposure by inhalation to chemical agents for comparison with and measurement strategy) European Standard EN 14042 (Workplace

limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Derived no effect levels**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
xylene	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m³	Workers	Local
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	108 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	,	Consumers	Systemic
	DNEL	Long term Oral	1,6 mg/kg bw/day	Consumers	Systemic
ethylbenzene	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	15 mg/m³	Consumers	Systemic
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tatemp 650							
ECTION 8: Exposure con	trols/p	personal prote	ctic	on			
	DNEL	Long term Oral	1,6 bw/	mg/kg day	Consume	rs	Systemic
Predicted no effect concentrations							
Product/ingredient name	Туре	Compartment De	tail		Value		Method Detail
xylene	PNEC PNEC PNEC PNEC PNEC				ng/l	- - - -	
ethylbenzene	PNEC PNEC PNEC PNEC	Fresh water Marine Sewage Treatment Plant		0,1 mg 0,01 m 9,6 mg	g/l /l	- - -	
toluene	PNEC PNEC PNEC PNEC PNEC PNEC	Soil Secondary Poisonir Fresh water Marine	ıg		g/l g/l	- - - -	
	PNEC PNEC PNEC	Fresh water sedime Marine water sedim		16,39 ı	mg/kg dwt mg/kg dwt g/kg dwt	- - -	
controls ven con con con exp ndividual protection measures	tilation or taminants trols also losive lim	a adequate ventilation other engineering co s below any recomme need to keep gas, va its. Use explosion-pr	entrols endec apour roof v	s to kee d or stat or dust ventilatic	p worker ex utory limits. concentrat n equipmer	tposure The e ions be nt.	e to airborne engineering elow any lower
befo App	ore eating propriate t	, forearms and face t , smoking and using echniques should be	the la usec	avatory avatory	and at the e	end of t ally cor	the working peri ntaminated cloth

	safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying to EN 166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Wash contaminated clothing before reusing. Ensure that eyewash stations and

	shields.
Skin protection	
Hand protection	<ul> <li>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.</li> <li>Wear suitable gloves tested to EN374. May be used, gloves(breakthrough time) 4 - 8 hours: neoprene, butyl rubber Not recommended, gloves(breakthrough time) &lt; 1 hour: PVC Recommended, gloves(breakthrough time) &gt; 8 hours: fluor rubber, Viton®, 4H, Teflon, polyvinyl alcohol (PVA), nitrile rubber</li> </ul>

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

For right choice of glove materials, with focus on chemical res penetration, seek advice by the supplier of chemical resistant	
penetration, seek duvice by the supplier of chemical resistant	t gioves.
The user must check that the final choice of type of glove sele product is the most appropriate and takes into account the pa use, as included in the user's risk assessment.	5
<ul> <li>Body protection</li> <li>Personal protective equipment for the body should be selected being performed and the risks involved and should be approve before handling this product. When there is a risk of ignition f wear anti-static protective clothing. For the greatest protection discharges, clothing should include anti-static overalls, boots a European Standard EN 1149 for further information on materi requirements and test methods.</li> </ul>	ed by a specialist from static electricity, n from static and gloves. Refer to
Other skin protection         : Appropriate footwear and any additional skin protection measures           selected based on the task being performed and the risks involution approved by a specialist before handling this product.	
<b>Respiratory protection</b> : If workers are exposed to concentrations above the exposure respirator according to EN 140. Use respiratory mask with chawhen spraying this product, according to EN 14387(as filter conconfined spaces, use compressed-air or fresh-air respiratory of roller or brush, consider use of charcoalfilter.	arcoal and dust filter ombination A2-P2). In
<b>Environmental exposure</b> <b>controls</b> : Emissions from ventilation or work process equipment should ensure they comply with the requirements of environmental pr In some cases, fume scrubbers, filters or engineering modifica equipment will be necessary to reduce emissions to acceptable	rotection legislation. ations to the process

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

9.1 Information on basic physica	al a	ind chemical properties
Appearance		
Physical state	1	Liquid.
Colour	1	Grey. Black.
Odour	1	Aromatic.
Odour threshold	1	Not applicable.
рН	:	Not applicable.
Melting point/freezing point	:	Not applicable.
Initial boiling point and boiling range	:	>90°C (>194°F)
Flash point	:	Closed cup: 18°C
Evaporation rate	:	Highest known value: 3.22 (dimethyl carbonate) Weighted average: 1. 94compared with butyl acetate
Flammability (solid, gas)	1	Not applicable.
Burning time	1	Not applicable.
Burning rate	1	Not applicable.
Upper/lower flammability or explosive limits	:	1.2 - 8%
Vapour pressure	:	Highest known value: 7.6 kPa (56.8 mm Hg) (at 20°C) (dimethyl carbonate). Weighted average: 1.84 kPa (13.8 mm Hg) (at 20°C)
Vapour density	1	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.39 (Air = 1)
Relative density	1	1.88 g/cm³
Solubility(ies)	1	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	1 :	Not available.
Auto-ignition temperature	:	393 to 530°C (739.4 to 986°F)
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (23 °C): 0,612 cm²/s (61,2 mm²/s) Kinematic (40°C): >0,205 cm²/s (>20,5 mm²/s)
Explosive properties	:	Not available.
Date of issue :	1	6.06.2017 <b>8/14</b>

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

**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	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 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.
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	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **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.

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 Gas.	Rabbit	4000 ppm	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	636 mg/kg	-
naphthalene	LD50 Oral	Rat	490 mg/kg	-

#### Acute toxicity estimates

Route	ATE value
	26829,3 mg/kg 209,5 mg/l

Irritation/Corrosion

# SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
toluene	Eyes - Mild irritant	Rabbit	-	0,5 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	870 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-
	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
naphthalene	Skin - Mild irritant	Rabbit	-	495 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 0. 05 Mililiters	-

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

Product/ingredient name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), heavy arom. toluene	0,		Narcotic effects Narcotic effects

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

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

#### **Aspiration hazard**

Product/ingredient name	Result
Jotatemp 650 (mmi-wcs)	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

#### Potential acute health effects

Eye contact	: No known significant effects or critical hazards.			
Inhalation	: No known significant effects or critical hazards.			
Skin contact	: No known significant effects or critical hazards.			
Ingestion	: May be fatal if swallowed and enters airways.			
Symptoms related to the physical, chemical and toxicological characteristics				
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: No specific data.			
Ingestion	: Adverse symptoms may include the following: nausea or vomiting			
Potential chronic health effects				
General	: No known significant effects or critical hazards.			
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Teratogenicity	: No known significant effects or critical hazards.			
Developmental effects	: No known significant effects or critical hazards.			
Fertility effects	: No known significant effects or critical hazards.			

Date of issue
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### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), heavy arom.	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
naphthalene	Acute EC50 0,4 mg/l	Algae - Skeletonema costatum	96 hours
	Acute EC50 1,6 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2800 µg/l Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
	Chronic NOEC 0,67 ppm Fresh water	Fish - Oncorhynchus kisutch	40 days
Conclusion/Summary	: This material is harmful to aquatic life	with long lasting effects.	•

12.2 Persistence and degradability Conclusion/Summary : Not available.

-			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Solvent naphtha (petroleum), heavy arom.	-	-	Not readily
xylene	-	-	Readily
ethylbenzene naphthalene	-	-	Readily Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Solvent naphtha (petroleum), heavy arom.	2.8 to 6.5	99 to 5780	high
xylene	3,12	8.1 to 25.9	low
ethylbenzene	3,6	-	low
toluene	2,73	90	low
naphthalene	3,4	36.5 to 168	low

12.4 Mobility in soil		
Soil/water partition 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.

### **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**

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

# European waste catalogue : 08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances

## **SECTION 14: Transport information**

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

International transport regu	<u>ulations</u>
14.1 UN number	: 1263
14.2 UN proper shipping name	: Paint
14.3 Transport hazard class(es)	: 3
14.4 Packing group	
14.5 Environmental hazards	: No.
14.6 Special precautions for user	: Transport within user's premises: 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.
Additional information	
ADR / RID	: Tunnel restriction code: (D/E) Hazard identification number: 33 Special provisions: 640D
IMDG	: <u>Emergency schedules (EmS)</u> F-E, <u>S-E</u>
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	: Not available.

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation		
Substances of very high concern		
None of the components a	ire listed.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.	
Other EU regulations		
Europe inventory	: Not determined.	
Black List Chemicals	: Not listed	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed	
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed	

# **SECTION 15: Regulatory information**

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
toluene	-	-	Repr. 2, H361d (Unborn child)	-
naphthalene	Carc. 2, H351	-	-	-
Chemical Weapons Convention List Schedule I Chemicals	: Not listed	•		•
Chemical Weapons Convention List Schedule II Chemicals	: Not listed			
Chemical Weapons Convention List Schedule III Chemicals	: Not listed			
.2 Chemical safety sessment	: Not applicable.			

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate</li> <li>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.</li> </ul>		
	1272/2008]		
	DNEL = Derived No Effect Level		
	EUH statement = CLP-specific Hazard statement		
	PNEC = Predicted No Effect Concentration		
	RRN = REACH Registration Number		

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

Classification		Justification
Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 3, H412		On basis of test data Expert judgment Calculation method
Full text of abbreviated H statements	H226Flammable liquH302Harmful if swallH304May be fatal if sH312Harmful in contaH315Causes skin irriH319Causes seriousH321Harmful if inhaleH332Harmful if inhaleH336May cause drowH351Suspected of caH361dSuspected of da(Unbornchild)H373May cause dam(hearing(hearing organs)H373May cause damH400Very toxic to aqH410Very toxic to aquation	owed. wallowed and enters airways. act with skin. tation. eye irritation. ed. vsiness or dizziness. ausing cancer. amaging the unborn child. hage to organs through prolonged or repeated exposure.
Full text of classifications [CLP/GHS]	Aquatic Chronic 2, H411	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 2 LONG-TERM AQUATIC HAZARD - Category 3
Date of issue	: 16.06.2017	13/14

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

	Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
	Carc. 2, H351	CARCINOGENICITY - Category 2
	EUH066	Repeated exposure may cause skin dryness or cracking.
	Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
	Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
	Repr. 2, H361d (Unborn child)	TOXIC TO REPRODUCTION (Unborn child) - Category 2
	Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
	STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	(hearing organs)	EXPOSURE) (hearing organs) - Category 2
	STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
	STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
Date of printing	: 16.06.2017	
Date of issue/ Date of revision	: 16.06.2017	
Date of previous issue	: 16.06.2017	
Version	: 4.01	
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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.