SUPPLIED BY SML PROTECTIVE COATINGS - TEL: 01285 862 132 - WEB: WWW.SMLPROTECTIVECOATINGS.CO.UK



## **Tankguard Special Topcoat Comp A**

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

1.1 Product identifier	
Product name	: Tankguard Special Topcoat Comp A
Product code	: 734
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

Uses in Coatings - Industrial use Uses in Coatings - Professional use **Identified uses** 

Uses 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; phone 111.

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317

Aquatic Chronic 2, H411

#### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	: R10
	Xi; R36/38
	R43
	N; R51/53
Physical/chemical hazards	: Flammable.

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## **SECTION 2: Hazards identification**

- Human health hazards **Environmental hazards**
- : Irritating to eyes and skin. May cause sensitisation by skin contact.
- : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
  - environment.

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

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

## 2.2 Label elements

Hazard pictograms

Hazard pictograms		
Signal word	Danger.	
Hazard statements	Flammable liquid and vapour. Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.	
Precautionary statements		
General	Not applicable.	
Prevention	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.	
Response	IF IN EYES: Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or physician.	
Storage	Keep cool.	
Disposal	Not applicable.	
Hazardous ingredients	phenol, polymer with formaldehyde, glycidyl ether butan-1-ol	
Supplemental label elements	Contains epoxy constituents. May produce an allergic reaction.	
Additional information	Not applicable.	
2.3 Other hazards Other hazards which do not result in classification	None known.	

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

Substance/mixture	: Mixture					
			Clas	sification		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре	Notes
phenol, polymer with formaldehyde,	CAS: 28064-14-4	≥25 - <50	Xi; R36/38	Skin Irrit. 2, H315	[1]	-
glycidyl ether			R43	Eye Irrit. 2, H319		
			N; R51/53	Skin Sens. 1, H317		
				Aquatic Chronic 2, H411		
butan-1-ol	REACH #: 01-2119484630-38	≥5 - <10	R10	Flam. Liq. 3, H226	[1] [2]	-
	EC: 200-751-6		Xn; R22	Acute Tox. 4, H302		
	CAS: 71-36-3		Xi; R41, R37/38	Skin Irrit. 2, H315		
	Index: 603-004-00-6		R67	Eye Dam. 1, H318		
				STOT SE 3, H335		
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SECTION 3: Co	mposition/inforr	natior	on ingredients			
xylene	REACH #: 01-2119488216-32	≥5 - <10	R10	STOT SE 3, H336 Flam. Liq. 3, H226	[1] [2]	с
	EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9		Xn; R20/21 Xi; R38	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315		
Solvent naphtha (petroleum), light	REACH #: 01-2119455851-35	≥3,1 - <5	R10	Flam. Liq. 3, H226	[1] [2]	H-P
arom. (<0.1% Benzene)	EC: 265-199-0 CAS: 64742-95-6		Xn; R65 Xi; R37 R66, R67 N; R51/53	STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411		
ethylbenzene	REACH #: 01-2119489370-35	≥1 - <3	F; R11	Flam. Liq. 2, H225	[1] [2]	-
	EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4		Xn; R20, R48/20, R65	Acute Tox. 4, H332 STOT RE 2, H373 (ears) Asp. Tox. 1, H304		
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

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[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

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

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

4.1 Description of first aid m	ieas	sures
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.
Inhalation	-	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Eye contact	-	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Ingestion	:	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
4.2 Most important sympton	ns a	ind effects, both acute and delayed
Potential acute health effect	<u>cts</u>	
Eye contact	1	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.

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SECTION 4: First aid measures		
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/sy	<u>imptoms</u>	
Eye contact	: Adverse symptoms may include the following: pain watering redness	
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur	
Ingestion	: Adverse symptoms may include the following: stomach pains	
4.3 Indication of any imm	nediate 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**

5.1 Extinguishing media Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.
Unsuitable extinguishing media	: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is toxic 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 sulfur oxides 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 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	:	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 for chemical incidents.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)	
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#### SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe 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** : 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 precautions pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. 6.3 Methods and material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with 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.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **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.

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

#### 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)		
Recommendations	:	Not available.
Industrial sector specific solutions	:	Not available.
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## **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**

Product/ingredient name	Exposure limit values
butan-1-ol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 154 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
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.
Solvent naphtha (petroleum), light arom. (<0.	EH40-WEL (United Kingdom (UK), 12/2011). Absorbed through
1% Benzene)	skin.
	TWA: 200 mg/m <sup>3</sup> 8 hours. Form: All forms
	TWA: 40 ppm 8 hours. Form: All forms
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.
procedures atmosphere or	contains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness
	on or other control measures and/or the necessity to use respiratory
	pment. Reference should be made to monitoring standards, such as
	European Standard EN 689 (Workplace atmospheres - Guidance for
	nt of exposure by inhalation to chemical agents for comparison with
	d measurement strategy) European Standard EN 14042 (Workplace
atmospheres -	Guide for the application and use of procedures for the assessment

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** 

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## SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
butan-1-ol	DNEL	Long term Inhalation	310 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	3,125 mg/ kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	55 mg/m <sup>3</sup>	Consumers	Local
xylene	DNEL	Short term Inhalation	289 mg/m³	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/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	108 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	14,8 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	1,6 mg/kg bw/day	Consumers	Systemic
Solvent naphtha (petroleum), light arom. (<0.1% Benzene)	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	150 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	11 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	32 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	11 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
	DNEL	Long term Oral	1,6 mg/kg bw/day	Consumers	Systemic

#### Predicted no effect concentrations

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
butan-1-ol	PNEC	Fresh water	0,082 mg/l	-
	PNEC	Marine	0,0082 mg/l	-
	PNEC	Sewage Treatment Plant	2476 mg/l	-
	PNEC	Fresh water sediment	0,178 mg/kg dwt	-
	PNEC	Marine water sediment	0,0178 mg/kg dwt	-
	PNEC	Soil	0,015 mg/kg dwt	-
xylene	PNEC	Fresh water	0,327 mg/l	-
	PNEC	Marine	0,327 mg/l	-
	PNEC	Sewage Treatment Plant	6,58 mg/l	-
	PNEC	Fresh water sediment	12,46 mg/kg dwt	-
	PNEC	Marine water sediment	12,46 mg/kg dwt	-
	PNEC	Soil	2,31 mg/kg dwt	-
ethylbenzene	PNEC	Fresh water	0,1 mg/l	-
	PNEC	Marine	0,01 mg/l	-
	PNEC	Sewage Treatment Plant	9,6 mg/l	-
	PNEC	Fresh water sediment	13,7 mg/kg dwt	-
	PNEC	Soil	2,68 mg/kg dwt	-
	PNEC	Secondary Poisoning	20 mg/kg	-

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

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
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. Not recommended, gloves(breakthrough time) &lt; 1 hour: PE Recommended, gloves(breakthrough time) &gt; 8 hours: 4H, Teflon May be used, gloves(breakthrough time) &gt; 8 hours: Viton®, Barricade, CPF 3, Responder, nitrile rubber, neoprene, butyl rubber, PVC, polyvinyl alcohol (PVA)</li> <li>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</li> </ul>
Body protection	<ul> <li>use, as included in the user's risk assessment.</li> <li>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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.</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.
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use respiratory mask with charcoal and dust filter when spraying this product.(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.

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

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to
controls	ensure they comply with the requirements of environmental protection legislation.
	In some cases, fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable levels.

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

9.1 Information on basic physica	and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various colours.
Odour	: Characteristic.
Odour threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not applicable.
Initial boiling point and boiling range	: Lowest known value: 117°C (242.6°F) (butan-1-ol). Weighted average: 125. 39°C (257.7°F)
Flash point	: Closed cup: 25°C
Evaporation rate	: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.57compared with butyl acetate
Flammability (solid, gas)	: Not applicable.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Upper/lower flammability or explosive limits	: 1.1 - 11.3%
Vapour pressure	: Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.67 kPa (5.03 mm Hg) (at 20°C)
Vapour density	: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.03 (Air = 1)
Relative density	: 1.68 g/cm <sup>3</sup>
Solubility(ies)	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Lowest known value: 345°C (653°F) (butan-1-ol).
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C): >0,225 cm <sup>2</sup> /s (>22,5 mm <sup>2</sup> /s)
Explosive properties	: Not available.
Oxidising properties	: Not available.

9.2 Other information

No additional information.

10.1 Reactivity	pecific test data related to reactivity ava	ilable for this product or its ingredients.
10.2 Chemical stability	product is stable.	
10.3 Possibility of hazardous reactions	er normal conditions of storage and use	, hazardous reactions will not occur.
10.4 Conditions to avoid	d all possible sources of ignition (spark e, solder, drill, grind or expose containe	or flame). Do not pressurise, cut, weld, rs to heat or sources of ignition.
10.5 Incompatible materials	ctive or incompatible with the following r zing materials	naterials:
10.6 Hazardous decomposition products	er normal conditions of storage and use Id not be produced.	, hazardous decomposition products

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)		
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## **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 Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 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. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. 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. Swallowing may cause nausea, diarrhoea, vomiting, gastro-intestinal irritation and chemical pneumonia.

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 phenol, polymer with formaldehyde, glycidyl ether. May produce an allergic reaction.

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Gas.	Rabbit	4000 ppm	4 hours
,	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

#### Acute toxicity estimates

Route	ATE value
Oral	5025,1 mg/kg
Dermal	20547,3 mg/kg
Inhalation (vapours)	170,5 mg/l

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

Product/ingredient name	Category	Route of exposure	Target organs
butan-1-ol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Solvent naphtha (petroleum), light arom. (<0.1% Benzene)	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

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

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

#### Aspiration hazard

Product/ingredient name	Result
Solvent naphtha (petroleum), light arom. (<0.1% Benzene) ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
phenol, polymer with formaldehyde, glycidyl ether	Acute EC50 3,3 mg/l	Daphnia	48 hours
	Acute LC50 7,5 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light arom. (<0.1% Benzene)		Daphnia	48 hours
<b>č</b>	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
phenol, polymer with formaldehyde, glycidyl ether	-	-	Not readily
xylene Solvent naphtha (petroleum), light arom. (<0.1% Benzene)		-	Readily Not readily
ethylbenzene	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
butan-1-ol	0,88	-	low
xylene	3,12	8.1 to 25.9	low
Solvent naphtha (petroleum),	-	10 to 2500	high
light arom. (<0.1% Benzene)			0
ethylbenzene	3,15	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: 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** (EWC) : 08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

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## **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 requ	ulations
14.1 UN number	: 1263
14.2 UN proper shipping name	: Paint Marine pollutant (phenol, polymer with formaldehyde, glycidyl ether, Solvent naphtha (petroleum), light aromatic )
14.3 Transport hazard class(es)	: 3
Marking	The environmental hazardous / marine pollutant mark is only applicable for packages containing more than 5 litres for liquids and 5 kg for solids.
14.4 Packing group	: 111
14.5 Environmental hazards	: Yes.
14.6 Special precautions for user	: <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Additional information	
ADR / RID	: Tunnel restriction code: (D/E) Hazard identification number: 30 Special provisions: 640E
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
	<u>Emergency schedules (EmS)</u> F-E, <u>S-E</u>
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not available.

## **SECTION 15: Regulatory information**

15.1 Safety, health and envir	onmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 190	<u>17/2006 (REACH)</u>
Annex XIV - List of substa	inces subject to authorisation
Substances of very high	<u>concern</u>
None of the components	are listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other EU regulations	: Not applicable.
Europe inventory	: Not determined.
Black List Chemicals	: Not listed
Priority List Chemicals	: Not listed
Integrated pollution prevention and control list (IPPC) - Air	: Not listed

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## SECTION 15: Regulatory information

Integrated pollution prevention and control list (IPPC) - Water	-	Not listed
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
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other information**

✓ Indicates information that has changed from previously issued version.

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

Classi	fication	Justification
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411		On basis of test data Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H226Flammable liquH302Harmful if swall(oral)H304H304May be fatal if sH312Harmful in conta(dermal)H315H315Causes skin irriH317May cause an aH318Causes seriousH319Causes seriousH332Harmful if inhala(inhalation)H335H336May cause darwH373May cause darm(ears)(ears)	owed. wallowed and enters airways. act with skin. tation. allergic skin reaction. s eye damage. s eye irritation.
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 2, H411 Asp. Tox. 1, H304 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Skin Irrit. 2, H315	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 LONG-TERM AQUATIC HAZARD - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2
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## SECTION 16: Other information

	Skin Sens. 1, H317SKIN SENSITIZATION - Category 1STOT RE 2, H373 (ears)SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (ears) - Category 2STOT SE 3, H335SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3STOT SE 3, H336SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	
Full text of abbreviated R phrases	<ul> <li>R11- Highly flammable.</li> <li>R10- Flammable.</li> <li>R20- Harmful by inhalation.</li> <li>R22- Harmful if swallowed.</li> <li>R20/21- Harmful by inhalation and in contact with skin.</li> <li>R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.</li> <li>R65- Harmful: may cause lung damage if swallowed.</li> <li>R41- Risk of serious damage to eyes.</li> <li>R37- Irritating to respiratory system.</li> <li>R38- Irritating to eyes and skin.</li> <li>R37/38- Irritating to respiratory system and skin.</li> <li>R43- May cause sensitisation by skin contact.</li> <li>R66- Repeated exposure may cause skin dryness or cracking.</li> <li>R67- Vapours may cause drowsiness and dizziness.</li> <li>R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> </ul>	
Full text of classifications [DSD/DPD]	: F - Highly flammable Xn - Harmful Xi - Irritant N - Dangerous for the environment	
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Date of issue/ Date of revision	: 03.06.2015.	
Date of previous issue	: 03.06.2015.	
Version	: 4.03	
Notice to reader		

#### 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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## **Tankguard Special Topcoat Comp A**

## Exposure Scenario: Uses 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 (unless stated differently)	
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. Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8 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	: Carry out in a vented booth provided with laminar airflow. or Provide a good standard of controlled ventilation (10 to 15 air changes per hour). and Wear a respirator conforming to EN140 with type A/P2 filter or better.	
Control of environmental exp Organisational measures to prevent/limit release from site	OSUICE : Prevent environmental discharge consistent with regulatory requirements.	

Additional 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.
Conditions and measures related to external treatment of waste for disposal	<ul> <li>External treatment and disposal of waste should comply with applicable local and/or national regulations. See Section 13 for additional waste treatment information.</li> </ul>
release nom site	

Additional information

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

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## **Tankguard Special Topcoat Comp A**

# Exposure Scenario: Uses 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 (unless stated differently)	
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. Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection. See Section 8 for information on appropriate personal protective equipment.	
Type of activity or process	Risk management measures	
Preparation of material for application - 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. 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 - Outdoor	: Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 1 hour or	
	Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 with type A/P2 filter or better.	
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 respirator conforming to EN140 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 respirator conforming to EN140 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 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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