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# **Tankguard Special Primer Comp A**

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

1.1 Product identifier	
Product name	: Tankguard Special Primer Comp A
Product code	: 733
Product description	Fhis is a two component polyamine cured novolac epoxy coating. It has very good chemical resistance. Can be used as primer or mid coat in atmospheric and immersed environments. Suitable for properly prepared carbon steel, galvanised steel and stainless steel substrates.
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** 

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 National Poison Centre via Hospital or Registered Medical Practitioner

### **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 3, H412

#### 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 Xn; R20/21/22 Xi; R36/38 R43 R52/53

Date of issue

: 24.07.2014.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)	
Tankguard Special Primer Comp A	
SECTION 2: Hazards identification	

Physical/chemical hazards	: Flammable.
Human health hazards	<ul> <li>Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact.</li> </ul>
Environmental hazards	: Harmful 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		
2.2 Laber elements		
Hazard pictograms	:	
Signal word		Danger.
Hazard statements		Flammable liquid and vapour.
	1	Causes serious eye damage.
		Causes skin irritation.
		May cause an allergic skin reaction.
		Harmful to aquatic life with long lasting effects.
Precautionary statements		
General	:	Keep out of reach of children.
Prevention	:	Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces 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	1	Keep cool.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
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, glycidyl ether	CAS: 28064-14-4	>=5, <25	Xi; R36/38 R43 N; R51/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]	-
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	>=7, <10	R10 Xn; R22 Xi; R41, R37/38 R67	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 and H336	[1] [2]	-
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#### Tankguard Special Primer Comp A

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SECTION 3: Co	mposition/inforr	natior	n on ingredients			
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	>=5, <10	R10 Xn; R20/21 Xi; R38	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	[1] [2]	C
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	>=1, <3	F; R11 Xn; R20	Flam. Liq. 2, H225 Acute Tox. 4, H332 Asp. Tox. 1, H304	[1] [2]	-
			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.

Type

[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 measures General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. 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 symptoms and effects, both acute and delayed

Potential acute health effects	
Eye contact	: Causes serious eye damage.
Inhalation	: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: May cause burns to mouth, throat and stomach.
Over-exposure signs/sympto	<u>ms</u>

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# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK) Tankguard Special Primer Comp A SECTION 4: First aid measures

Eye contact	: Adverse symptoms may include the following:
Lye contact	pain
	watering
	redness
luck a lation	
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	: Treat symptomatically. Contact poison treatment specialist immediately if large
	quantities have been ingested or inhaled.
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 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 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.

# **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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II - United Kingdom (UK)		
Tankguard Special Primer Comp A			
<b>SECTION 6: Accident</b>	al release measures		
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 materials	s 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	: 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

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# SECTION 7: Handling and storage

Store in accordance with local regulations.

#### Notes on joint storage

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

Additional information on storage conditions

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

#### 7.3 Specific end use(s)

**Recommendations** 

: Not available.

Industrial sector specific : Not available. solutions

# SECTION 8: Exposure controls/personal protection

required.

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 nan	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.
othulhonzono	
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 332 mg/m 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
procedures atr of pro the lim atr of (W for	s product contains ingredients with exposure limits, personal, workplace sphere or biological monitoring may be required to determine the effectiveness e ventilation or other control measures and/or the necessity to use respiratory ctive equipment. Reference should be made to monitoring standards, such as ollowing: European Standard EN 689 (Workplace atmospheres - Guidance for ssessment of exposure by inhalation to chemical agents for comparison with values and measurement strategy) European Standard EN 14042 (Workplace spheres - Guide for the application and use of procedures for the assessment posure to chemical and biological agents) European Standard EN 482 kplace atmospheres - General requirements for the performance of procedures e measurement of chemical agents) Reference to national guidance ments for methods for the determination of hazardous substances will also be

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

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/m <sup>3</sup>	Workers	Systemic

onforms to Regulation (EC	) No. 1907/2006 (R	REACH), Annex II - L	Inited Kingd	om (UK)	
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SECTION 8: Exposu	re controls/p	ersonal prote	ction		
	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	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/m³	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	-

#### 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	sures
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

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.

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# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK) Tankguard Special Primer Comp A SECTION 8: Exposure controls/personal protection

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.</li> </ul>
	Not recommended, gloves(breakthrough time) < 1 hour: PE Recommended, gloves(breakthrough time) > 8 hours: 4H, Teflon May be used, gloves(breakthrough time) 4 - 8 hours: Viton®, Barricade, CPF 3, Responder, nitrile rubber, neoprene, butyl rubber, PVC, polyvinyl alcohol (PVA)
	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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to 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**

0.1 Information on basic physical and chemical properties						
Appearance						
Physical state	: Liquid.					
Colour	: Various colours.					
Odour	: Characteristic.					
Odour threshold	: Not available.					
рН	: Not available.					
Melting point/freezing point	: Not available.					
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# **SECTION 9: Physical and chemical properties**

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Initial boiling point and boiling range	ot available.	
Flash point	losed cup: 25°C	
Evaporation rate	ot available.	
Flammability (solid, gas)	ot available.	
Burning time	ot applicable.	
Burning rate	ot applicable.	
Upper/lower flammability or explosive limits	1 - 11.3%	
Vapour pressure	ighest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene).  v rerage: 0.69 kPa (5.18 mm Hg) (at 20°C)	Weighted
Vapour density	ighest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.15	(Air = 1)
Relative density	74 g/cm³	
Solubility(ies)	soluble in the following materials: cold water and hot water.	
Partition coefficient: n-octanol/ water	ot available.	
Auto-ignition temperature	ot available.	
Decomposition temperature	ot available.	
Viscosity	ot applicable.	
Explosive properties	ot available.	
Oxidising properties	ot available.	

#### 9.2 Other information

No additional information.

# SECTION 10: Stability and reactivity

1	No specific test data related to reactivity available for this product or its ingredients.
4	The product is stable.
:	Under normal conditions of storage and use, hazardous reactions will not occur.
1	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.
1	Reactive or incompatible with the following materials: oxidizing materials
:	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 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-

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# **SECTION 11: Toxicological information**

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, complex mixture of diamid waxes. May produce an allergic reaction.

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

#### Acute toxicity estimates

Route	ATE value	
Oral	5291 mg/kg	
Dermal	14024,4 mg/kg	
Inhalation (vapours)	116,4 mg/l	

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

Product/ingredient name	Category	Route of exposure	Target organs
butan-1-ol	Category 3		Respiratory tract irritation and Narcotic effects

# Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Product/ingredient name	Result	
ethylbenzene	ASPIRATION HAZARD - Category 1	

# **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
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

Conclusion/Summary : Thi

: This material is harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Conclusion/Summary	: Not available.
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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
phenol, polymer with formaldehyde, glycidyl ether	-	-	Not readily
xylene ethylbenzene	-		Readily Readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
butan-1-ol xylene ethylbenzene	0,88 3,12 3,15	- 8.1 to 25.9 -	low low low
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# **SECTION 12: Ecological information**

12.4 Mobility in soil Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
12.5 Results of PBT and vPv	'B assessment
РВТ	: 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
(EWC)	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.

# **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 reg	ulations	
14.1 UN number	: 1263	
14.2 UN proper shipping name	: Paint.	
14.3 Transport hazard class(es)	: 3	
14.4 Packing group	: 111	
14.5 Environmental hazards	: No.	
14.6 Special precautions for user	: <b>Transport within user's premises:</b> always transport in closed containers t upright and secure. Ensure that persons transporting the product know what the event of an accident or spillage.	
Additional information		
ADR / RID	: Tunnel restriction code: (D/E) Hazard identification number: 30 Special provisions: 640E	
	ADR/RID: Viscous substance. Not restricted, ref. chapter 2.2.3.1.5 (applical receptacles < 450 litre capacity).	ble to
IMDG	: <u>Emergency schedules (EmS)</u> F-E, <u>S-E</u>	
	IMDG: Viscous substance. Transport in accordance with paragraph 2.3.2.5 (applicable to receptacles < 30 litre capacity).	<b>;</b>
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# **SECTION 14: Transport information**

14.7 Transport in bulk: Not available.according to Annex II ofMARPOL 73/78 and theIBC Code

# **SECTION 15: Regulatory information**

•		nental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907		
Annex XIV - List of substan	Ce	es subject to authorisation
Substances of very high o	:01	<u>ncern</u>
None of the components a	re	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
Priority List Chemicals	;	Not listed
Integrated pollution prevention and control list (IPPC) - Air	:	Not listed
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 t	hat 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>
Procedure used to deriv	e the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

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# **SECTION 16: Other information**

Classification		Justification
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412		On basis of test data Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H226Flammable liquiH302Harmful if swalleH304May be fatal if sH312Harmful in contaH315Causes skin irritH317May cause an aH318Causes seriousH319Causes seriousH32Harmful if inhaleH335May cause respandH336H411Toxic to aquatic	owed. wallowed and enters airways. act with skin. tation. Illergic skin reaction. eye damage. eye irritation.
Full text of classifications [CLP/GHS]	<ul> <li>Acute Tox. 4, H302</li> <li>Acute Tox. 4, H312</li> <li>Acute Tox. 4, H332</li> <li>Aquatic Chronic 2, H411</li> <li>Aquatic Chronic 3, H412</li> <li>Asp. Tox. 1, H304</li> <li>Eye Dam. 1, H318</li> <li>Eye Irrit. 2, H319</li> <li>Flam. Liq. 2, H225</li> <li>Flam. Liq. 3, H226</li> <li>Skin Irrit. 2, H315</li> <li>Skin Sens. 1, H317</li> <li>STOT SE 3, H335 and</li> <li>H336</li> </ul>	ACUTE TOXICITY: ORAL - Category 4 ACUTE TOXICITY: SKIN - Category 4 ACUTE TOXICITY: INHALATION - Category 4 LONG-TERM AQUATIC HAZARD - Category 2 LONG-TERM AQUATIC HAZARD - Category 3 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 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation and Narcotic effects] - Category 3
Full text of abbreviated R phrases	R20/21/22- Harmful by in R41- Risk of serious dam R38- Irritating to skin. R36/38- Irritating to eyes R37/38- Irritating to respi R43- May cause sensitisa R67- Vapours may cause R51/53- Toxic to aquatic aquatic environment.	d. ation and in contact with skin. halation, in contact with skin and if swallowed. hage to eyes. and skin. ratory system and skin.
Full text of classifications [DSD/DPD]	: F - Highly flammable Xn - Harmful Xi - Irritant N - Dangerous for the en	vironment
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revision		
	: 15.04.2014.	

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: 24.07.2014.

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

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

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 Primer 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	osure
Organisational measures to prevent/limit release from site	: Prevent environmental discharge consistent with regulatory requirements.
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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	<ul> <li>External recovery and recycling of waste should comply with applicable local and/or national regulations.</li> </ul>
Additional information	

#### Additional information

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

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# **Tankguard Special Primer 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:

REACH #: 01-2119488216-32