

## Tankguard DW Comp A

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

1.1 Product identifier	
Product name	: Tankguard DW Comp A
Product code	: 9440
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

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

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

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

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

#### 1.4 Emergency telephone number

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

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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

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

:04.07.2019

2.2 Label elements Hazard pictograms		
Signal word	: Warning.	

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Tankguard DW Comp A		
<b>SECTION 2: Hazards</b>	ic	lentification
Hazard statements	:	<ul> <li>H319 - Causes serious eye irritation.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		
General	1	Not applicable.
Prevention	1	P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment.
Response	:	<ul> <li>P391 - Collect spillage.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>
Storage	1	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane 1,6-bis(2,3-epoxypropoxy)hexane
Supplemental label elements	:	Contains epoxy constituents. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Other hazards which do	1	None known.

not result in classification

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

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

Product/ingredient name	Identifiers	Weight %	Regulation (EC) No. 1272/2008 [CLP]	Туре
epoxy-formaldehyde resin (MW<700)	REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5	≥25 - ≤50	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	[1]
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
oxirane, 2,2'-[1,6-hexanediylbis (oxymethylene)]bis-	EC: 240-260-4 CAS: 16096-31-4	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]

Tankguard DW Comp A				
<b>SECTION 3: Compositio</b>	n/information on	ingredien	ts	
complex mixture of diamid waxes	REACH #: 01-0000017860-69 EC: 432-430-3	≤3	Aquatic Chronic 4, H413	
			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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

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

#### 4.1 Description of first aid measures

General	:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate 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.
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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and

### Tankguard DW Comp A

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

vapour should be avoided.

Contains Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol, 2,2'-[ (1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, 1,6-bis(2,3-epoxypropoxy)hexane. May produce an allergic reaction.

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media	Recommended: alcohol-resistant foam, $CO_2$ , powders, water spray.	
Unsuitable extinguishing media	Do not use water jet.	
5.2 Special hazards arising f	n the substance or mixture	
Hazards from the substance or mixture	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.	
Hazardous combustion products	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Cool closed containers exposed to fire with water. Do not release runoff from fire t drains or watercourses.	to
Special protective equipment for fire-fighters	Appropriate breathing apparatus may be required.	

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

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures	
For non-emergency personnel		Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.	
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
6.2 Environmental precautions	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.	
6.3 Methods and material for containment and cleaning up	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.	
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	
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# 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)	
Recommendations	: Not available.
Industrial sector specific	: Not available.

Industrial sector specific solutions

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

No exposure limit value known.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with 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
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### **SECTION 8: Exposure controls/personal protection**

documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Exposure	Value	Population	Effects
2,2'-[(1-methylethylidene)bis(4, 1-phenyleneoxymethylene)]bisoxirane	Short term Dermal	8.33 mg/ kg bw/day	Workers	Systemic
	Short term Inhalation	12.25 mg/ m <sup>3</sup>	Workers	Systemic
	Long term Dermal	8.33 mg/ kg bw/day	Workers	Systemic
	Long term Inhalation	12.25 mg/ m <sup>3</sup>	Workers	Systemic
	Short term Dermal	3.571 mg/ kg bw/day	Consumers	Systemic
	Short term Oral	0.75 mg/ kg bw/day	Consumers	Systemic
	Long term Dermal	3.571 mg/ kg bw/day	Consumers	Systemic
	Long term Oral	0.75 mg/ kg bw/day	Consumers	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
2,2'-[(1-methylethylidene)bis(4, 1-phenyleneoxymethylene)]bisoxirane	Fresh water	0.006 mg/l	-
	Marine	0.0006 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	0.996 mg/l	-
	Marine water sediment	0.0996 mg/l	-
	Soil	0.196 mg/l	-

8.2 Exposure controls	
Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.
Individual protection measured	<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	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Gloves	<ul> <li>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.</li> <li>Gloves should be replaced regularly and if there is any sign of damage to the glove material.</li> <li>Always ensure that gloves are free from defects and that they are stored and used correctly.</li> <li>The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.</li> <li>Barrier creams may help to protect the exposed areas of the skin but should not be</li> </ul>
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## SECTION 8: Exposure controls/personal protection

SECTION 8: Exposu	e controls/personal protection
	applied once exposure has occurred.
	Wear suitable gloves tested to EN374. Recommended, gloves(breakthrough time) > 8 hours: PVC, fluor rubber, Viton®, PE, butyl rubber, nitrile rubber, neoprene May be used, gloves(breakthrough time) 4 - 8 hours: 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	<ul> <li>Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.</li> </ul>
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387(as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

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

#### 9.1 Information on basic physical and chemical properties **Appearance Physical state** : Liquid. Colour : Various Odour : Characteristic. **Odour threshold** : Not applicable. рΗ : Not applicable. Melting point/freezing point : Not applicable. Initial boiling point and : Lowest known value: >260°C (>500°F)(epoxy resin (MW ≤ 700)). boiling range : Not available. Flash point **Evaporation rate** : Not available. Flammability (solid, gas) : Not applicable. Upper/lower flammability or : Not applicable. explosive limits : Highest known value: 0.08 kPa (0.6 mm Hg) (at 20°C) (epoxy-formaldehyde Vapour pressure resin (MW<700)). Weighted average: 0.04 kPa (0.3 mm Hg) (at 20°C) Vapour density : Highest known value: 11.7 (Air = 1) (epoxy resin (MW $\leq$ 700)). Density : 1.53 to 1.54 g/cm<sup>3</sup> Solubility(ies) : Insoluble in the following materials: cold water and hot water. Partition coefficient: n-octanol/ : Not available. water Auto-ignition temperature : Not applicable. **Decomposition temperature** : Not available. Viscosity : Kinematic (40°C): >0.205 cm<sup>2</sup>/s (>20.5 mm<sup>2</sup>/s) **Explosive properties** : Not available. **Oxidising properties** : Not available. Date of issue/Date of revision :04.07.2019 Date of previous issue Version :1 7/14 : No previous validation

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

#### 9.2 Other information

No additional information.

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

: No specific test data related to reactivity available for this product or its ingredients
: Stable under recommended storage and handling conditions (see Section 7).
: Under normal conditions of storage and use, hazardous reactions will not occur.
: When exposed to high temperatures may produce hazardous decomposition products.
: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol, 2,2'-[ (1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, 1,6-bis(2,3-epoxypropoxy)hexane. May produce an allergic reaction.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-[(1-methylethylidene)bis (4,	LD50 Dermal	Rabbit	20 g/kg	-
1-phenyleneoxymethylene)] bisoxirane				
	LD50 Oral	Mouse	15600 mg/kg	-

### **Conclusion/Summary** : Not available.

Acute toxicity estimates

Not available.

#### Irritation/Corrosion

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## **SECTION 11: Toxicological information**

<b>Result</b> Eyes - Severe irritant	Species Rabbit	Score	Exposure	Observation
Eyes - Severe irritant	Rabbit	-		
			24 hours 2 mg	-
Skin - Mild irritant	Rabbit	-	500 mg	-
: Not available.				
: Not available.				
: Not available.				
: Not available.				
: Not available.				
: Not available.				
<u>(single exposure)</u>				
(repeated exposure)				
	<ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>(single exposure)</li> </ul>	<ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>(single exposure)</li> </ul>	<ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>(single exposure)</li> </ul>	<ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>(single exposure)</li> </ul>

#### Other information : Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Acute EC50 2 mg/l	Daphnia	24 hours
•	Acute LC50 2 mg/l	Fish	96 hours
2,2'-[(1-methylethylidene)bis (4,	Acute EC50 1.4 mg/l	Daphnia	48 hours
1-phenyleneoxymethylene)]			
bisoxirane			
	Acute LC50 3.1 mg/l	Fish - pimephales promelas	96 hours
	Chronic NOEC 0.3 mg/l	Fish	21 days
1,6-bis(2,3-epoxypropoxy) hexane	Acute EC50 47 mg/l	Daphnia	48 hours
	Acute LC50 30 mg/l	Fish - Cyprinidae (Leuciscus idus)	96 hours

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## **SECTION 12: Ecological information**

## 12.2 Persistence and degradability

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol 2,2'-[(1-methylethylidene)bis (4, 1-phenyleneoxymethylene)] bisoxirane	-	-	Not readily Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.7	-	low
2,2'-[(1-methylethylidene)bis (4, 1-phenyleneoxymethylene)]	2.64 to 3.78	31	low
bisoxirane 1,6-bis(2,3-epoxypropoxy) hexane	0.822	-	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and v	PvB 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

io.i waste a cathent metro	us	
Product		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	Yes.
Disposal considerations	:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
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sal consider	ations	
: 08 01 11* Wasubstances	: 08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances	
packaging sh	on of waste should be avoided or minimised wherever possible. Waste nould be recycled. Incineration or landfill should only be considered ng is not feasible.	
the relevant Empty contai Dispose of c	<ul> <li>Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned.</li> <li>Dispose of containers contaminated by the product in accordance with local or national legal provisions.</li> </ul>	
	European waste catalogue (EWC)	
15 01 10*	packaging containing residues of or contaminated by hazardous substances	
	<ul> <li>: 08 01 11* Wasubstances</li> <li>: The generatipackaging shwhen recycling</li> <li>: Using inform the relevant were the relevant</li></ul>	

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (epoxy- formaldehyde resin (MW<700))	Environmentally hazardous substance, liquid, n.o.s. (epoxy- formaldehyde resin (MW<700))	Environmentally hazardous substance, liquid, n.o.s. (epoxy- formaldehyde resin (MW<700)). Marine pollutant (epoxy- formaldehyde resin (MW<700), epoxy resin (MW ≤ 700))	Environmentally hazardous substance, liquid, n.o.s. (epoxy- formaldehyde resin (MW<700))
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	111	111	Ш	Ш
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional informa	ition		-	
ADR/RID		triction code: (-) ntification number: 90		
ADN		rovided the packagings r	angerous good when tra neet the general provisio	

IMDG
 This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
 Emergency schedules F-A, S-F

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SECTION 14: Transport information		
ΙΑΤΑ	<ul> <li>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.</li> <li>1 and 5.0.2.8.</li> </ul>	
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.	
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	: Not applicable.	

## **SECTION 15: Regulatory information**

15.1 Safety, health and enviro EU Regulation (EC) No. 190	•		ific for the substance or	' mixture	
Annex XIV - List of substat	•				
Annex XIV		dunonsation			
None of the components a	re listed.				
Substances of very high					
None of the components a					
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles		le.			
Other EU regulations					
VOC			EC on VOC apply to this pheet for further information		the
VOC for Ready-for-Use Mixture	: Not available	9.			
Europe inventory	: Not determin	ned.			
Ozone depleting substanc	<u>es (1005/2009/E</u>	<u>:U)</u>			
Not listed.					
Prior Informed Consent (P	IC) (649/2012/F	UN			
Not listed.		<u>ot</u>			
Seveso Directive This product may add to the major accident hazards.	calculation for d	etermining whether a sit	e is within the scope of th	e Seveso Directi	ive on
National regulations					
Industrial use	own assessi legislation. T	ment of workplace risks,	fety data sheet does not c as required by other heal ional health and safety at	lth and safety	
International regulations					
Chemical Weapon Convent	ion List Schedu	iles I, II & III Chemicals			
Not listed.					
Montreal Protocol (Annexes	<u>; A, B, C, E)</u>				
Not listed.					
Stockholm Convention on F	<u>ersistent Orga</u>	<u>nic Pollutants</u>			
Not listed.					
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### **SECTION 15: Regulatory information**

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

15.2 Chemical safety	: Not applicable.
assessment	

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

Indicates information that has changed from previously issued version.

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

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

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

#### Full text of abbreviated H statements

H319	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

#### Full text of classifications [CLP/GHS]

Aquatic Chronic 2, H411		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4, H413		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Eye Irrit. 2, H319		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2, H315		SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317		SKIN SENSITISATION - Category 1
Skin Sens. 1A, H317		SKIN SENSITISATION - Category 1A
Skin Sens. 1B, H317		SKIN SENSITISATION - Category 1B
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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.