

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
UFI	: 0G4U-709F-A00S-9F3J
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 A/S	Jotun Paints (Europe) Ltd.
P.O.Box 2021	Stather Road
3202 Sandefjord	Flixborough, Scunthorpe
Norway	North Lincolnshire
Tel: + 47 33 45 70 00	DN15 8RR
Fax: +47 33 45 72 42	England
E-mail: SDSJotun@jotun.no	-
	Tel: +44 17 24 40 00 00
	Fax: +44 17 24 40 01 00
1.4 Emergency telephone number	

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.Supplier: +47 33 45 70 00 Jotun Norway (head office)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

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

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

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

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

2.2 Label elements

Hazard pictograms



SECTION 2: Hazards identification

Signal word	÷	Warning.
Hazard statements	:	H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements		
General	1	Not applicable.
Prevention	:	P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
Response	:	 P391 - Collect spillage. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	4	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	EUH205 - Contains epoxy constituents. May produce an allergic reaction. EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do	:	None known.

not result in classification

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	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]
barium sulfate	EC: 231-784-4 CAS: 7727-43-7	≥10 - ≤25	Not classified.	[2]

SECTION 3: Composition/information on ingredients				
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]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤10	Carc. 2, H351 (inhalation)	[1] [2] [*]
talc (non-asbestos form)	EC: 238-877-9 CAS: 14807-96-6	≤5	Not classified.	[2]
complex mixture of diamid waxes	REACH #: 01-0000017860-69 EC: 432-430-3	≤3	Aquatic Chronic 4, H413	[1]
			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

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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.

SECTION 4: First aid measures

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.

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 epoxy-formaldehyde resin (MW<700), epoxy resin (MW \leq 700), oxirane, 2,2'-[1,6-hexanediylbis (oxymethylene)]bis-. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

4.3 Indication of any immediate 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.

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 from the substance or mixture

Hazards from the substance or mixture
 In a fire or if heated, a pressure increase will occur and the container may burst. 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.

SECTION 5: Firefighting measures

Hazardous combustion	: Decomposition products may include the following materials:
products	carbon dioxide
	carbon monoxide
	sulfur oxides
	halogenated compounds
	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.
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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

mode.

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. 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. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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

SECTION 7: Handling and storage

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria				
	• •	Notification and MAPP threshold	Safety report threshold	
	E2	200 tonne	500 tonne	

See Technical Data Sheet / packaging for further information.

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

ific : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
parium sulfate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 4 mg/m ³ 8 hours. Form: respirable dust
	TWA: 10 mg/m ³ 8 hours. Form: inhalable dust
titanium dioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 4 mg/m ³ 8 hours. Form: respirable
	TWA: 10 mg/m ³ 8 hours. Form: total inhalable
talc (non-asbestos form)	EH40/2005 WELs (United Kingdom (UK), 1/2020).
```	TWA: 1 mg/m ³ 8 hours. Form: respirable dust

#### **Biological exposure indices**

No exposure indices known.

**Recommended monitoring procedures**: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

# SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
poxy-formaldehyde resin MW<700)	DMEL	Short term Dermal	0.0083 mg/ cm²	Workers	Local
	DNEL	Long term Oral	6.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term	8.7 mg/m ³	General	Systemic
	DNEL	Inhalation Long term Inhalation	29.39 mg/ m³	population Workers	Systemic
	DNEL	Long term Dermal	62.5 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 104.15 mg/ kg bw/day	population Workers	Systemic
epoxy resin (MW ≤ 700)	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m ³	Workers	Systemic
parium sulfate	DNEL	Long term Inhalation	10 mg/m³	Workers	Local
	DNEL	Long term Inhalation	10 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	10 mg/m³	Workers	Systemic
	DNEL	Long term Oral	13000 mg/ kg bw/day	General population	Systemic
talc (non-asbestos form)	DNEL	Short term Inhalation	1.08 mg/m ³		Systemic
	DNEL	Long term Inhalation	1.08 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1.8 mg/m³	General population	Local
	DNEL	Long term Inhalation	1.8 mg/m³	General population	Local
	DNEL	Short term Inhalation	2.16 mg/m ³		Systemic
	DNEL	Long term Inhalation	2.16 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	2.27 mg/ cm²	General population	Local
	DNEL	Short term Inhalation	3.6 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	3.6 mg/m ³	Workers	Local
	DNEL	Long term Dermal	4.54 mg/ cm²	Workers	Local
	DNEL	Long term Dermal	21.6 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	43.2 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Oral	160 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	160 mg/kg bw/day	General population	Systemic

**PNECs** 

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

 	-		
Product/ingredient name	Compartment Detail	Value	Method Detail
epoxy resin (MW ≤ 700)	Marine Sewage Treatment Plant	0.006 mg/l 0.0006 mg/l 10 mg/l 0.996 mg/l	
	Marine water sediment	0.0996 mg/l 0.196 mg/l	-

#### 8.2 Exposure controls

Appropriate engineering : controls		Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measu	res	<u>&gt;</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 to ISO 16321-1:2022 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.

#### **Skin protection**

#### Hand protection

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.

#### Gloves

Wear suitable gloves tested to ISO 374-1:2016.

May be used, gloves(breakthrough time) 4 - 8 hours: polyvinyl alcohol (PVA) (> 0.3 mm) Recommended, gloves(breakthrough time) > 8 hours: fluor rubber (> 0.35 mm), Viton® (> 0.7 mm), PVC (> 0.5 mm), nitrile rubber (> 0.4 mm), neoprene (> 0.35 mm), butyl rubber (> 0.4 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection	<ul> <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.</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.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 Tankguard DW Comp A

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

Environmental exposure : Do not allow to enter drains or watercourses. controls

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>		
Physical state	1	Liquid.
Colour	1	Grey, White.
Odour	1	Characteristic.
Odour threshold	1	Not applicable.
Melting point/freezing point	:	Not applicable.
Initial boiling point and boiling range	1	Lowest known value: >260°C (>500°F)(epoxy resin (MW ≤ 700)).
Flammability	:	Not applicable.
Upper/lower flammability or explosive limits	:	Not applicable.
Flash point	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	1	Not available.
рН	1	Not applicable.
Viscosity	1	Kinematic (40°C): >20.5 mm²/s
Partition coefficient: n-octanol/ water	:	Not available.
Vapour pressure	:	Highest known value: 0.08 kPa (0.6 mm Hg) (at 20°C) (epoxy-formaldehyde resin (MW<700)). Weighted average: 0.04 kPa (0.3 mm Hg) (at 20°C)
Evaporation rate	:	Not available.
Density	1	1.533 to 1.54 g/cm ³
Vapour density	1	Highest known value: 11.7 (Air = 1) (epoxy resin (MW ≤ 700)).
Explosive properties	:	Not available.
Oxidising properties	:	Not available.
Particle characteristics		
Median particle size	1	Not applicable.

#### 9.2 Other information

No additional information.

#### SECTION 10: Stability and reactivity **10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients. : Stable under recommended storage and handling conditions (see Section 7). 10.2 Chemical stability 10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions 10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products. **10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. **10.6 Hazardous** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. decomposition products

Date of issue/Date of revision

# **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.

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 epoxy-formaldehyde resin (MW<700), epoxy resin (MW  $\leq$  700), oxirane, 2,2'-[1,6-hexanediylbis (oxymethylene)]bis-. May produce an allergic reaction.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Dermal LD50 Oral	Rabbit Mouse	20 g/kg 15600 mg/kg	-

#### Acute toxicity estimates

N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₽poxy-formaldehyde resin (MW<700)	Skin - Mild irritant	Mammal - species unspecified	-	-	-
epoxy resin (MW ≤ 700)	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
oxirane, 2,2'- [1,6-hexanediylbis (oxymethylene)]bis-	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours	-

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
epoxy-formaldehyde resin (MW<700)	skin	Mammal - species unspecified	Sensitising
epoxy resin (MW ≤ 700)	skin	Mammal - species unspecified	Sensitising
oxirane, 2,2'- [1,6-hexanediylbis (oxymethylene)]bis-	skin	Mammal - species unspecified	Sensitising

Mutagenicity

# **SECTION 11: Toxicological information**

No known significant effects or critical hazards.

#### **Carcinogenicity**

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

No known significant effects or critical hazards.

#### **Reproductive toxicity**

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

#### **Teratogenicity**

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure) Not available.

#### Aspiration hazard

Not available.

#### Potential acute health effects

Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	1	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.
Symptoms related to the phy	sic	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Other information	:	None identified.

# **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
epoxy-formaldehyde resin (MW<700)	Acute EC50 2 mg/l	Daphnia	24 hours
· · · ·	Acute LC50 2 mg/l	Fish	96 hours
epoxy resin (MW ≤ 700)	Acute EC50 1.4 mg/l	Daphnia	48 hours
	Acute LC50 3.1 mg/l	Fish - pimephales promelas	96 hours
	Chronic NOEC 0.3 mg/l	Fish	21 days
oxirane, 2,2'-	Acute EC50 47 mg/l	Daphnia	48 hours
[1,6-hexanediylbis (oxymethylene)]bis-			
	Acute LC50 30 mg/l	Fish - Cyprinidae (Leuciscus	96 hours
ate of issue/Date of revision	: 21.04.2023 Date of previous issue	: 30.03.2023 Version	:1.02 11/1

# **SECTION 12: Ecological information**

titanium dioxide	Acute LC50 3 mg/l Fresh water	idus) Crustaceans - Water flea -	48 hours	
	Acute LC50 5 mg/l Fresh water	Ceriodaphnia dubia - Neonate	40 110015	
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - Daphnia pulex - Neonate	48 hours	
	Acute LC50 >1000000 μg/l Marine water	Fish - Mummichog - Fundulus heteroclitus	96 hours	
Conclusion/Summary	: Water polluting material. May be h	armful to the environment if released	d in large	

: Water polluting material. May be harmful to the environment if released in large 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
epoxy-formaldehyde resin (MW<700)	-	-	Not readily
epoxy resin (MW ≤ 700)	-	-	Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<pre>poxy-formaldehyde resin (MW&lt;700)</pre>	2.7	-	low
epoxy resin (MW ≤ 700) oxirane, 2,2'- [1,6-hexanediylbis (oxymethylene)]bis-	2.64 to 3.78 0.822		low low

#### 12.4 Mobility in soil

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

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**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**

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.
Waste catalogue	
Waste code	Waste designation
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances

Packaging

# **SECTION 13: Disposal considerations**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	Waste catalogue		
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances	
Special precautions		I and its container must be disposed of in a safe way. Care should be	

I his 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	IATA
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		Ш	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

		or $\leq$ 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. <u>Hazard identification number</u> 90 <u>Tunnel code</u> (-)
ADN	:	This product is not regulated as a dangerous good when transported in sizes of $\leq$ 5 L or $\leq$ 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.
IMDG	:	This product is not regulated as a dangerous good when transported in sizes of $\leq$ 5 L or $\leq$ 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. <b>Emergency schedules</b> F-A, S-F
ΙΑΤΑ	:	Segregation Group: - This product is not regulated as a dangerous good when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
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.
Date of issue/Date of revision		: 21.04.2023 Date of previous issue : 30.03.2023 Version : 1.02 13/16

# **SECTION 14: Transport information**

14.7 Transport in bulk according to IMO instruments : Not available.

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

#### **Ozone depleting substances**

Not listed.

#### **Prior Informed Consent (PIC)**

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain

dangerous substances, mixtures and articles

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

Category E2 **EU regulations Industrial emissions** : Not listed (integrated pollution prevention and control) -Air Industrial emissions : Not listed (integrated pollution prevention and control) -Water International regulations **Chemical Weapon Convention List Schedules I, II & III Chemicals** Not listed. **Montreal Protocol** Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. **Rotterdam Convention on Prior Informed Consent (PIC)** Not listed.

# **SECTION 15: Regulatory information**

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

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 GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative</li> </ul>

#### Procedure used to derive the classification

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

<b>⊮</b> 315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H351	Suspected of causing cancer.	
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

Aquatic Chronic 2 Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Carc. 2	CARCINOGENICITY - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

Tankguard DW Comp A

### **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.