

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

1.1 Product identifier	
Product name	: Penguard Express B11 Comp A
UFI	: U6XT-F1KU-700V-1K0Y
Product code	: 20560
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 P.O.Box 2021 3202 Sandefjord Norway

Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no

### 1.4 Emergency telephone number

Norwegian National Poison Centre: +47 22 59 13 00

# **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 Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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



Signal word

: Warning

SECTION 2: Hazards	IC	nentification
Hazard statements	:	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		
General	1	Not applicable.
Prevention	:	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapour.</li> </ul>
Response	:	<ul> <li>P391 - Collect spillage.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	:	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	epoxy resin (MW ≤ 700) epoxy resin (MW 700-1200) hydrocarbons, c9-unsatd., polymd.
Supplemental label elements	:	EUH205 - 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	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
.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

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**

3.2 Mixtures	: Mixture	_	-		-
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	01-2119485044-40 Aquatic Chr EC: 231-944-3 H410 CAS: 7779-90-0 H410		M [Acute] = 1 M [Chronic] = 1	[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	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 20 mg/ I	[1] [2]
epoxy resin (MW 700-1200)	CAS: 25036-25-3	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≤3	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
hydrocarbons, c9-unsatd., polymd.	REACH #: 01-2119555292-40 EC: 701-299-7 CAS: 71302-83-5	≤3	Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[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.

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

### Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

# **SECTION 4: First aid measures**

4.1 Description of first aid me	easures
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 vapour should be avoided.

Contains epoxy resin (MW  $\leq$  700), epoxy resin (MW 700-1200), hydrocarbons, C9-unsaturated, polymerized. 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

# SECTION 4: First aid measures

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: 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 <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	:	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		Cool closed containers exposed to fire with water. Do not release runoff from fire to

Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective	: Appropriate breathing apparatus may be required.

equipment for fire-fighters

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	1	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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Penguard Express B11 Comp A

# **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.

### Seveso Directive - Reporting thresholds

### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne
E2	200 tonne	500 tonne

See Technical Data Sheet / packaging for further information.

### 7.3 Specific end use(s)

- : Not available.
- Recommendations Industrial sector specific solutions

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

: Not available.

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

Occupational exposure limits

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

Product/ingredient name	Exposure limit values
xylene	FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through
	skin. Notes: H E
	TWA: 108 mg/m <sup>3</sup> 8 hours.
	TWA: 25 ppm 8 hours.
ethylbenzene	FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through
	skin. Notes: H K E
	TWA: 5 ppm 8 hours.
	TWA: 20 mg/m <sup>3</sup> 8 hours.
1-methoxy-2-propanol	FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through
	skin. Notes: indicative limit value
	TWA: 180 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.

procedures

**Recommended monitoring** : 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 documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
trizinc bis(orthophosphate)	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	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 <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>		Systemic
xylene	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Local

DNEL	Inhalation Short term	260 mg/m <sup>3</sup>	population General	Local
	Inhalation		population	Systemic
	Inhalation	_	population	
DNEL		221 mg/m <sup>3</sup>	Workers	Local
DNEL	Long term Oral	12.5 mg/	General	Systemic
DNEL	Long term Inhalation		General	Systemic
DNEL	Long term Dermal	125 mg/kg	General	Systemic
DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
DNEL	Long term Inhalation	15 mg/m³	General	Systemic
DNEL	Long term	77 mg/m³	Workers	Systemic
DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
DMEL	Short term	884 mg/m³	Workers	Systemic
DNEL	Long term Oral	4 mg/kg bw/day	General	Systemic
DNEL	Long term Dermal	4 mg/kg	General	Systemic
DNEL	Long term	5.4 mg/m <sup>3</sup>	General	Systemic
DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
DNEL	Short term Oral	20 mg/kg	General population	Systemic
DNEL	Short term Dermal	20 mg/kg	General	Systemic
DNEL	Long term	22 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Short term	27 mg/m³	General	Systemic
DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Long term Oral	33 mg/kg bw/dav	General population	Systemic
DNEL	Long term	43.9 mg/m <sup>3</sup>	General	Systemic
DNEL	Long term Dermal	78 mg/kg bw/day	General	Systemic
DNEL	Long term Dermal	183 mg/kg	Workers	Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELInhalation Short term Inhalation DNELInhalation Long term Inhalation DNELDNELLong term Inhalation DNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term DermalDNELLong term OralDNELShort term Inhalation DNELDNELLong term OralDNELShort term Inhalation DNELDNELLong term OralDNELLong term OralDNELLong term OralDNELLong term OralDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term Inhalation DNELDNELShort term OralDNELLong term DermalDNELShort term OralDNELShort term DermalDNELShort term DermalDNEL <td< td=""><td>Inhalation260 mg/m³DNELShort term260 mg/m³Inhalation221 mg/m³Inhalation221 mg/m³DNELLong term Oral12.5 mg/kgDNELLong term Dermal125 mg/kgDNELLong term Dermal125 mg/kgDNELLong term Dermal125 mg/kgDNELLong term Dermal212 mg/kgDNELLong term Dermal221 mg/m³Inhalation100 term221 mg/m³DNELShort term442 mg/m³Inhalation1.6 mg/kgDNELLong term Oral1.6 mg/kgDNELLong term15 mg/m³Inhalation1.6 mg/kgDNELLong term17 mg/m³Inhalation1.6 mg/kgDNELLong term Dermal180 mg/kgbw/dayDNELLong termDNELLong term442 mg/m³Inhalation180 mg/kgbw/dayDNELLong termDNELLong term Dermal180 mg/kgbw/dayDNELLong term DermalDNELLong term Dermal4 mg/kgbw/dayDNELLong term DermalDNELLong term Dermal20 mg/kgbw/dayDNELShort term Dermal8 mg/kgbw/dayDNELShort term Dermal20 mg/kgbw/dayDNELShort term Dermal20 mg/kgbw/dayDNELShort term Dermal20 mg/kgbw/dayDNELShort term Dermal40 mg/kgbw/day<t< td=""><td>InhalationDescriptionDNELShort term260 mg/m³Inhalation221 mg/m³DNELLong term Oral12.5 mg/ kg bw/dayDNELLong term Oral12.5 mg/ kg bw/dayDNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELShort term442 mg/m³Inhalation1.6 mg/kgDNELShort term442 mg/m³Inhalation1.6 mg/kgDNELLong term Oral1.6 mg/kgDNELLong term15 mg/m³Inhalation77 mg/m³DNELLong term180 mg/kgVorkersInhalationDNELLong term180 mg/kgDNELLong term180 mg/kgDNELLong term180 mg/kgDNELLong term293 mg/m³InhalationWorkersDMELLong term Dermal884 mg/m³DNELLong term Oral4 mg/kgDNELLong term Oral9 workersDNELLong term Oral9 mg/kgDNELLong term Oral</td></t<></td></td<>	Inhalation260 mg/m³DNELShort term260 mg/m³Inhalation221 mg/m³Inhalation221 mg/m³DNELLong term Oral12.5 mg/kgDNELLong term Dermal125 mg/kgDNELLong term Dermal125 mg/kgDNELLong term Dermal125 mg/kgDNELLong term Dermal212 mg/kgDNELLong term Dermal221 mg/m³Inhalation100 term221 mg/m³DNELShort term442 mg/m³Inhalation1.6 mg/kgDNELLong term Oral1.6 mg/kgDNELLong term15 mg/m³Inhalation1.6 mg/kgDNELLong term17 mg/m³Inhalation1.6 mg/kgDNELLong term Dermal180 mg/kgbw/dayDNELLong termDNELLong term442 mg/m³Inhalation180 mg/kgbw/dayDNELLong termDNELLong term Dermal180 mg/kgbw/dayDNELLong term DermalDNELLong term Dermal4 mg/kgbw/dayDNELLong term DermalDNELLong term Dermal20 mg/kgbw/dayDNELShort term Dermal8 mg/kgbw/dayDNELShort term Dermal20 mg/kgbw/dayDNELShort term Dermal20 mg/kgbw/dayDNELShort term Dermal20 mg/kgbw/dayDNELShort term Dermal40 mg/kgbw/day <t< td=""><td>InhalationDescriptionDNELShort term260 mg/m³Inhalation221 mg/m³DNELLong term Oral12.5 mg/ kg bw/dayDNELLong term Oral12.5 mg/ kg bw/dayDNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELShort term442 mg/m³Inhalation1.6 mg/kgDNELShort term442 mg/m³Inhalation1.6 mg/kgDNELLong term Oral1.6 mg/kgDNELLong term15 mg/m³Inhalation77 mg/m³DNELLong term180 mg/kgVorkersInhalationDNELLong term180 mg/kgDNELLong term180 mg/kgDNELLong term180 mg/kgDNELLong term293 mg/m³InhalationWorkersDMELLong term Dermal884 mg/m³DNELLong term Oral4 mg/kgDNELLong term Oral9 workersDNELLong term Oral9 mg/kgDNELLong term Oral</td></t<>	InhalationDescriptionDNELShort term260 mg/m³Inhalation221 mg/m³DNELLong term Oral12.5 mg/ kg bw/dayDNELLong term Oral12.5 mg/ kg bw/dayDNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELLong term Dermal212 mg/m³DNELShort term442 mg/m³Inhalation1.6 mg/kgDNELShort term442 mg/m³Inhalation1.6 mg/kgDNELLong term Oral1.6 mg/kgDNELLong term15 mg/m³Inhalation77 mg/m³DNELLong term180 mg/kgVorkersInhalationDNELLong term180 mg/kgDNELLong term180 mg/kgDNELLong term180 mg/kgDNELLong term293 mg/m³InhalationWorkersDMELLong term Dermal884 mg/m³DNELLong term Oral4 mg/kgDNELLong term Oral9 workersDNELLong term Oral9 mg/kgDNELLong term Oral

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

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			bw/day		
	DNEL	Long term	369 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	553.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	553.5 mg/	Workers	Systemic
		Inhalation	m³		
hydrocarbons, c9-unsatd., polymd.	DNEL	Long term Dermal	3.5 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	1.41 mg/m³	Workers	Systemic
		Inhalation			

### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
trizinc bis(orthophosphate)	Fresh water	20.6 µg/l	-
	Marine	6.1 µg/l	-
	Sewage Treatment	52 µg/l	-
	Plant		
	Fresh water sediment	117.8 mg/kg dwt	-
	Marine water sediment	56.5 mg/kg dwt	-
	Soil	35.6 mg/kg dwt	-
epoxy resin (MW ≤ 700)	Fresh water	0.006 mg/l	-
	Marine	0.0006 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant		
	Fresh water sediment	0.996 mg/l	-
	Marine water sediment	0.0996 mg/l	-
	Soil	0.196 mg/l	-
xylene	Fresh water	0.327 mg/l	-
	Marine	0.327 mg/l	-
	Sewage Treatment	6.58 mg/l	_
	Plant	elee mg/i	
	Fresh water sediment	12.46 mg/kg dwt	_
	Marine water sediment	12.46 mg/kg dwt	_
	Soil	2.31 mg/kg dwt	
ethylbenzene	Fresh water	0.1 mg/l	
Carlybenzene	Marine	0.01 mg/l	
	Sewage Treatment	9.6 mg/l	1
	Plant	9.0 mg/i	-
	Fresh water sediment	12.7 mg/kg dut	
	Soil	13.7 mg/kg dwt	-
		2.68 mg/kg dwt	-
	Secondary Poisoning Fresh water	20 mg/kg	-
benzyl alcohol		1 mg/l	-
	Marine	0.1 mg/l	-
	Sewage Treatment	39 mg/l	-
	Plant	5 07 // July	
	Fresh water sediment	5.27 mg/kg dwt	-
	Marine water sediment	0.527 mg/kg dwt	-
4	Soil	0.456 mg/kg dwt	-
1-methoxy-2-propanol	Fresh water	10 mg/l	-
	Marine	1 mg/l	-
	Sewage Treatment	100 mg/l	-
	Plant		
	Fresh water sediment	52.3 mg/kg dwt	-
	Marine water sediment	5.2 mg/kg dwt	-
	Soil	5.49 mg/kg dwt	-
hydrocarbons, c9-unsatd., polymd.	Fresh water	54 µg/l	-
	Marine	5.4 µg/l	-
	Sewage Treatment	2.2 mg/l	-
	DIAL		1
	Plant		
	Fresh water sediment	1584 mg/kg dwt	-

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# SECTION 8: Exposure controls/personal protection Marine water sediment 158 mg/kg dwt Soil 316.7 mg/kg dwt Secondary Poisoning 200 mg/kg

: 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.
<u>res</u>
: 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.
: 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.
u

### 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.

### <u>Gloves</u>

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

May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), butyl rubber (> 0.4 mm), PVC (> 0.5 mm)

Recommended, gloves(breakthrough time) > 8 hours: fluor rubber (> 0.35 mm), Viton® (> 0.7 mm), nitrile rubber (> 0.4 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm), 4H/Silver Shield® (> 0.07 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>Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.</li> </ul>
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use 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.

Date of issue/Date of revision: 24.03.2023Date of previous issue: 23.03.2023	
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# **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	Liquid.
Colour	Grey, Red
Odour	Characteristic.
Odour threshold	Not applicable.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Lowest known value: 120.17°C (248.3°F) (1-methoxy-2-propanol). Weighted average: 214.53°C (418.2°F)
Flammability	Not applicable.
Lower and upper explosion limit	0.8 - 13.74%
Flash point	Closed cup: 30°C
Auto-ignition temperature	Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).
Decomposition temperature	Not available.
рН	Not applicable.
Viscosity	Kinematic (40°C): >20.5 mm²/s
Solubility in water	cold water Not soluble hot water Not soluble
Partition coefficient: n-octanol/ water	Not available.
Vapour pressure	Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.43 kPa (3.23 mm Hg) (at 20°C)
Evaporation rate	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.67compared with butyl acetate
Density	1.699 g/cm <sup>3</sup>
Vapour density	Highest known value: 11.7 (Air = 1) (epoxy resin (MW ≤ 700)). Weighted average: 7.43 (Air = 1)
Explosive properties	Not available.
Oxidising properties	Not available.
Particle characteristics	
Median particle size	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.			
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).			
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
10.4 Conditions to avoid	<ul> <li>When exposed to high temperatures may produce hazardous decomposition products.</li> </ul>			
10.5 Incompatible materials	<ul> <li>Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.</li> </ul>			
10.6 Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.			

# **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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 epoxy resin (MW ≤ 700), epoxy resin (MW 700-1200), hydrocarbons, C9-unsaturated, polymerized. May produce an allergic reaction.

Product/ingredient name	Result	Species	Dose	Exposure
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	20 g/kg	-
	LD50 Oral	Mouse	15600 mg/kg	-
xylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
benzyl alcohol	LD50 Oral	Rat	1230 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
hydrocarbons, c9-unsatd.,	LD50 Dermal	Rat	>2000 mg/kg	-
polymd.				
	LD50 Oral	Rat	>2000 mg/kg	-

### Acute toxicity

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Penguard Express B11 Comp A	48809.5	11747.4	N/A	114.6	N/A
xylene	4300	1100	N/A	20	N/A
ethylbenzene	3500	N/A	N/A	17.8	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A

Irritation/Corrosion

# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation	
epoxy resin (MW ≤ 700)	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-	
	Skin - Mild irritant	Rabbit	-	500 milligrams	-	
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-	
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-	
epoxy resin (MW 700-1200)	Eyes - Mild irritant	Mammal - species unspecified	-	-	-	
	Skin - Mild irritant	Mammal - species unspecified	-	-	-	
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-	
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-	
	Skin - Mild irritant	Rabbit	-	500 mg	-	

### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
epoxy resin (MW ≤ 700)	skin	Mammal - species unspecified	Sensitising
epoxy resin (MW 700-1200)	skin	Mammal - species unspecified	Sensitising
hydrocarbons, c9-unsatd., polymd.	skin	Mouse	Sensitising

### **Mutagenicity**

No known significant effects or critical hazards.

**Carcinogenicity** 

No known significant effects or critical hazards.

### **Reproductive toxicity**

- **Developmental effects**
- **Fertility effects**

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

### **Teratogenicity**

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

### **Aspiration hazard**

Product/ingredient name	Result	
xylene	ASPIRATION HAZARD - Category 1	
ethylbenzene	ASPIRATION HAZARD - Category 1	

# **SECTION 11: Toxicological information**

### 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** 

Not available.

### 11.2.2 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
trizinc bis(orthophosphate)	Acute LC50 0.14 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.1 mg/l	Micro-organism	4 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
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours

: 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
trizinc bis(orthophosphate) epoxy resin (MW ≤ 700) xylene ethylbenzene benzyl alcohol	- - - -	- - - - -	Not readily Not readily Readily Readily Readily

### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
trizinc bis(orthophosphate)	-	60960	high
epoxy resin (MW ≤ 700)	2.64 to 3.78	31	low
xylene	3.12	8.1 to 25.9	low
ethylbenzene	3.6	-	low
benzyl alcohol	0.87	<100	low
1-methoxy-2-propanol	<1	-	low
hydrocarbons, c9-unsatd., polymd.	3.627	-	low

### **12.4 Mobility in soil**

Soil/water partition : coefficient (K<sub>oc</sub>) Mobility :

: Not available.

: Not available.

# **SECTION 12: Ecological information**

### 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 Endocrine disrupting properties

Not available.

### 12.7 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	1	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.

### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances
Packaging	
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.
Disposal considerations	<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. Dispose of containers contaminated by the product in accordance with local or national legal provisions.</li> </ul>

Type of packaging		European waste catalogue (EWC)
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special precautions	taken when Empty conta residues ma container. E thoroughly ir	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product by create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with ays, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ		
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263		
14.2 UN proper shipping name	Paint	Paint	Paint. Marine pollutant (trizinc bis (orthophosphate))	Paint		
14.3 Transport hazard class(es)	3		3	3		
14.4 Packing group	111	111	111	111		
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.		

Additional information		
ADR/RID	-	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ . <u>Hazard identification number</u> 30 <u>Tunnel code</u> (D/E)
ADN	:	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.
IMDG	:	The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg. <b>Emergency schedules</b> F-E, <u>S-E</u>
ΙΑΤΑ	1	The environmentally hazardous substance mark may appear if required by other transportation regulations.
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 Maritime 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>EU Regulation (EC) No. 1907/2006 (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.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

# **SECTION 15: Regulatory information**

	5
:	The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.
:	Not available.
:	Not listed
:	Not listed
es	<u>(1005/2009/EU)</u>
IC)	<u>(649/2012/EU)</u>
nts	<u>)</u>
	: : <u>:</u> <u>:</u> <u>:</u>

Not listed.

### Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

### National regulations

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

### <u>Norway</u>

Product registration : 636917

# number

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.

### **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] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration REN = REACH Registration Number</li> </ul>
	RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification			
Flam. Lig. 3, H226	On basis of test data			
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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

	ACUTE TOXICITY - Category 4			
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1			
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1			
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2			
	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3			
	ASPIRATION HAZARD - Category 1			
	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2			
	FLAMMABLE LIQUIDS - Category 2			
•	FLAMMABLE LIQUIDS - Category 3			
	SKIN CORROSION/IRRITATION - Category 2			
	SKIN SENSITISATION - Category 1			
	SKIN SENSITISATION - Category 1B			
	SPECIFIC TARGET ORGAN ŤOXICITY - REPEATED EXPOSURE - Cat	egory 2		
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Catego	ry 3		
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# **SECTION 16: Other information**

### Notice to reader

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