SAFETY DATA SHEET



Penguard Express CF Aluminium Comp A

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

1.1 Product identifier

Product name : Penguard Express CF Aluminium Comp A

Product code : 51445

Product description : Paint.

Product type : Liquid.

Other means of : Not available.

identification

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 Dam. 1, H318 Skin Sens. 1, H317

STOT RE 2, H373 (central nervous system (CNS))

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

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 1/21

SECTION 2: Hazards identification

Hazard pictograms











Signal word : Danger.

Hazard statements : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

H373 - May cause damage to organs through prolonged or repeated exposure.

(central nervous system (CNS))

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

General : Not applicable.

Prevention : P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

: P391 - Collect spillage. Response

P314 - Get medical advice/attention if you feel unwell.

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, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

: Not applicable. **Storage**

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal**

national and international regulations.

Hazardous ingredients : epoxy resin (MW ≤ 700)

butan-1-ol

hydrocarbons, c9-unsatd., polymd.

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

: EUH205 - Contains epoxy constituents. May produce an allergic reaction.

Phenol, methylstyrenated Phenol, styrenated

2-Propenoic acid, reaction products with pentaerythritol

hexane-1,6-diol diacrylate

Supplemental label

elements

Annex XVII - Restrictions on the manufacture. placing on the market and use of certain dangerous substances, mixtures and

: Not applicable.

articles

Special packaging requirements

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

2.3 Other hazards

Date of issue/Date of revision Date of previous issue : 29.05.2024 : 29.05.2024 Version : 2.01 2/21

SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.

Other hazards which do not result in classification

: None known.

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
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]
hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≤5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤5	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)] = 11 mg/ I	[1] [2]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 500 mg/kg	[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/	[1]
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]
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	REACH #: 01-2119458049-33 EC: 919-446-0 CAS: -	≤3	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) (inhalation)	-	[1]

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 3/21

SECTION 3: Composition/information on ingredients

•			<u> </u>		
			Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066		
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	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)] = 11 mg/	[1] [2]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 700-960-7 CAS: 68512-30-1	<1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
Phenol, styrenated	REACH #: 02-2119629611-43 EC: 262-975-0 CAS: 61788-44-1	<1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
2-Propenoic acid, reaction products with pentaerythritol	REACH #: 01-2119490003-49 EC: 629-850-6 CAS: 1245638-61-2	<1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg	[1]
hexane-1,6-diol diacrylate	REACH #: 01-2119484737-22 EC: 235-921-9 CAS: 13048-33-4 Index: 607-109-00-8	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H	-	[1]
			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.

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- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

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.

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 4/21

SECTION 4: First aid measures

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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:

pain watering redness

Inhalation

: No specific data.

Skin contact

: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion

Adverse symptoms may include the following:

stomach pains

4.3 Indication of any 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, CO₂, 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

for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Appropriate breathing apparatus may be required.

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 5/21

SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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.

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

Date of issue/Date of revision : 29.05.2024 : 29.05.2024 Version : 2.01 6/21 Date of previous issue

SECTION 7: Handling and storage

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)

Recommendations : Not available.

Industrial sector specific : Not available.

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

Product/ingredient name	Exposure limit values		
xylene	FOR-2011-12-06-1358 (Norway, 12/2022). [xylen] Absorbed		
	through skin. Notes: H E		
	TWA: 108 mg/m ³ 8 hours.		
	TWA: 25 ppm 8 hours.		
butan-1-ol	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through		
	skin. Notes: H T		
	CEIL: 75 mg/m³		
	CEIL: 25 ppm		
ethylbenzene	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through		
•	skin. Notes: H K E		
	TWA: 5 ppm 8 hours.		
	TWA: 20 mg/m ³ 8 hours.		

Recommended monitoring procedures

: 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	Type	Exposure	Value	Population	Effects
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/m³	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m ³	Workers	Systemic
hydrocarbons, C9, aromatics	DNEL	Long term Dermal	12.5 mg/ kg bw/day	Workers	Systemic

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 7/21

SECTION 8: Exposure controls/personal protection

	DNEL	Long term	151 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	7.5 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	_
	DNEL	Long term	32 mg/m³	General	Systemic
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Oral	7.5 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
	DNEL	Long term	0.41 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	1.9 mg/m ³	Workers	Systemic
		Inhalation	Ğ		,
	DNEL	Long term	178.57 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	640 mg/m ³	General	Local
		Inhalation	- · · · · · · · · · · · · · · · · · · ·	population	
	DNEL	Long term	837.5 mg/	Workers	Local
		Inhalation	m³	.,	
	DNEL	Short term	1066.67	Workers	Local
		Inhalation	mg/m³	.,	
	DNEL	Short term	1152 mg/	General	Systemic
	DIVLL	Inhalation	m ³	population	O yoto iiio
	DNEL	Short term	1286.4 mg/	Workers	Systemic
	DIVLL	Inhalation	m ³	VVOIRGIS	Oysternic
xylene	DNEL	Long term Oral	5 mg/kg	General	Systemic
Aylene	DINLL	Long term Oral	bw/day	population	Systernic
	DNEL	Long term	65.3 mg/m ³	General	Local
	DINEL	Inhalation	05.5 mg/m	population	Lucai
	DNEL		65.3 mg/m ³	General	Systemia
	DINEL	Long term Inhalation	03.3 mg/m		Systemic
	DNEL		125 ma/ka	population General	Systemia
	DINEL	Long term Dermal	125 mg/kg bw/day		Systemic
	DNEL	Long term Dermal	212 mg/kg	population Workers	Systemia
	DINEL	Long term Dermai		WOIKEIS	Systemic
	DNE	l and tarm	bw/day	Markoro	Local
	DNEL	Long term	221 mg/m ³	Workers	Local
	DNEL	Inhalation	221 ma/m³	Workers	Cuatamia
	DINEL	Long term Inhalation	221 mg/m ³	WOIKEIS	Systemic
	DNE		260 ma/m³	Canaral	Local
	DNEL	Short term	260 mg/m ³	General	Local
	ראבי	Inhalation	2603	population General	Systemis
	DNEL	Short term Inhalation	260 mg/m ³	general population	Systemic
	DNEL	Short term	442 mg/m³	Workers	Local
	DINCL	Inhalation	442 mg/m²	AA OI VGI 2	LUCAI
	DNE		112 ma/m3	Morkoro	Systemis
	DNEL	Short term	442 mg/m ³	Workers	Systemic
hutan 1 al	ראבי	Inhalation	1 5605	Conoral	Systemis
butan-1-ol	DNEL	Long term Oral	1.5625 mg/	General	Systemic
	ראורי	long to man D - man - '	kg bw/day	population	Cyntonsia
	DNEL	Long term Dermal	3.125 mg/	General	Systemic
	חארי	l and tarm	kg bw/day	population	Cyptomic
	DNEL	Long term	55.357 mg/	General	Systemic
	ראורי	Inhalation	m ³	population	
	DNEL	Long term	155 mg/m ³	General	Local
	D	Inhalation	040 ' *	population	
	DNEL	Long term	310 mg/m ³	Workers	Local
	D	Inhalation	4 "		
benzyl alcohol	DNEL	Long term Oral	4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	4 mg/kg	General	Systemic
			bw/day	population	

SECTION 8: Exposure controls/personal protection

		-	1	T	
	DNEL	Long term	5.4 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	8 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term Oral	20 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	20 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	22 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	27 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Short term Dermal	40 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	110 mg/m ³	Workers	Systemic
		Inhalation			
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	J.		'
hydrocarbons, C9-C12, n-alkanes,	DNEL	Long term	330 mg/m ³	Workers	Systemic
isoalkanes, cyclics, aromatics		Inhalation	,		,
(2-25%)					
(,	DNEL	Long term Dermal	44 mg/kg	Workers	Systemic
			bw/day		- ,
	DNEL	Long term	71 mg/m ³	General	Systemic
		Inhalation	/ · · · · · · · · · · · · · · · · · · ·	population	Cyclonic
	DNEL	Long term Dermal	26 mg/kg	General	Systemic
	DIVLL	Long term berman	bw/day	population	Cysternic
	DNEL	Long term Oral	26 mg/kg	General	Systemic
	DIVLL	Long term Oral	bw/day	population	Gysternic
ethylbenzene	DMEL	Long term	442 mg/m ³	Workers	Local
etryiberizerie	DIVILL	Inhalation	442 mg/m	VVOIKEIS	Local
	DMEL	Short term	884 mg/m³	Workers	Systemic
	DIVILL	Inhalation	004 mg/m	VVOIKEIS	Gysternic
	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
	DIVLL	Long term Oral	bw/day	population	Gysternic
	DNEL	Long term	15 mg/m ³	General	Systemic
	DIVLL	Inhalation	15 1119/111	population	Systemic
	DNEL	Long term	77 mg/m³	Workers	Systemic
	PINEL	Inhalation	, , ilig/ili	VVOIRGIS	Cysternic
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
	PINEL	Long term Definal	bw/day	VVOINGIS	Cysternic
	DNEL	Short term	293 mg/m ³	Workers	Local
	PINEL	Inhalation	290 mg/m	VVOINGIS	Local
Phenol, methylstyrenated	DNEL	Long term Dermal	16.4 mg/	Workers	Systemic
i nonoi, metryistyrenateu	PINEL	Long term Dermal	kg bw/day	VVOINGIS	Cystoniio
	DNEL	Long term	57 mg/m ³	General	Systemic
	DIVLE	Inhalation	07 mg/m	population	Cystoniio
				[Consumers]	
	DNEL	Long term Dermal	8 mg/kg	General	Systemic
	PINEL	Long term Dermal	bw/day	population	Cystoniio
			DW/uay	[Consumers]	
	DNEL	Long term	28 mg/m³	General	Systemic
	PINCL	Inhalation	20 mg/m	population	Oysternic
		ii ii iaiaiiUH		[Consumers]	
	DNEL	Long term Oral	4 mg/kg	General	Systemic
	PINEL	Long will Olal	bw/day		Cysternic
			bw/day	population	
	DNEL	Long term Oral	0.2 ma/ka	[Consumers] General	Systemic
	DIVEL	Long term Oral	0.2 mg/kg bw/day		Systemic
	DNEL	Long term	0.348 mg/	population General	Systemic
	DIVEL	Long term Inhalation	0.348 mg/ m ³		Systemic
<u> </u>	<u> </u>	II II I I I I I I I I I I I I I I I I	<u> </u>	population	<u> </u>

SECTION 8: Exposure controls/personal protection

	DAILE	l	4 4 4 4 2	187	0 1 .
	DNEL	Long term	1.41 mg/m ³	vvorkers	Systemic
		Inhalation			
	DNEL	Long term Dermal	1.67 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	3.5 mg/kg	Workers	Systemic
			bw/day		
Phenol, styrenated	DNEL	Long term Oral	0.75 mg/	General	Systemic
,,			kg bw/day	population	-,
	DNEL	Long term Dermal	0.75 mg/	General	Systemic
	DIVLL	Long torri Dorria	kg bw/day	population	Cyclerino
	DNEL	Long torm			Cyatamia
	DINEL	Long term	1.31 mg/m ³		Systemic
	DAIEI	Inhalation	0.4/	population	0
	DNEL	Long term Dermal	2.1 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	7.4 mg/m³	Workers	Systemic
		Inhalation			
hexane-1,6-diol diacrylate	DNEL	Long term Dermal	1.66 mg/	General	Systemic
			kg bw/day	population	-
	DNEL	Long term Oral	2.1 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Long term Dermal	2.77 mg/	Workers	Systemic
	5.422	Long tonin Donnia	kg bw/day		5,5.5
	DNEL	Long term	7.2 mg/m ³	General	Systemic
	DINCL	Inhalation	7.2 mg/m		Cysternic
	DNE		04 5 3	population	Cuatamaia
	DNEL	Long term	24.5 mg/m ³	vvorkers	Systemic
		Inhalation			

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
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	-
kylene	Fresh water	0.327 mg/l	-
	Marine	0.327 mg/l	-
	Sewage Treatment	6.58 mg/l	-
	Plant		
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	-
outan-1-ol	Fresh water	0.082 mg/l	-
	Marine	0.0082 mg/l	-
	Sewage Treatment	2476 mg/l	-
	Plant		
	Fresh water sediment	0.178 mg/kg dwt	-
	Marine water sediment	0.0178 mg/kg dwt	-
	Soil	0.015 mg/kg dwt	-
penzyl alcohol	Fresh water	1 mg/l	-
•	Marine	0.1 mg/l	-
	Sewage Treatment	39 mg/l	-
	Plant		
	Fresh water sediment	5.27 mg/kg dwt	-
	Marine water sediment	0.527 mg/kg dwt	-
	Soil	0.456 mg/kg dwt	-
nydrocarbons, c9-unsatd., polymd.	Fresh water	54 µg/l	-
	Marine	5.4 µg/l	-
	Sewage Treatment	2.2 mg/l	-
	Plant		
	Fresh water sediment	1584 mg/kg dwt	-

Date of issue/Date of revision: 29.05.2024Date of previous issue: 29.05.2024Version: 2.0110/21

SECTION 8: Exposure controls/personal protection

	Marine water sediment	158 mg/kg dwt	-
	Soil	316.7 mg/kg dwt	-
	Secondary Poisoning	200 mg/kg	-
ethylbenzene	Fresh water	0.1 mg/l	-
	Marine	0.01 mg/l	-
	Sewage Treatment	9.6 mg/l	-
	Plant		
	Fresh water sediment	13.7 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
	Secondary Poisoning	20 mg/kg	-
Phenol, methylstyrenated	Fresh water	14 μg/l	-
	Marine	1.4 µg/l	-
	Sewage Treatment	2.4 mg/l	-
	Plant		
	Fresh water sediment	52.9 mg/kg dwt	-
	Marine water sediment	5.3 mg/kg dwt	-
	Soil	10.5 mg/kg dwt	-
	1		1

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 measures

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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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: neoprene (> 0.35 mm), butyl rubber (> 0.4 mm)

Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm)

Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm), polyvinyl alcohol (PVA) (> 0.3 mm), nitrile rubber (> 0.75 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.

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 11/21

SECTION 8: Exposure controls/personal protection

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

: Use chemical-resistant protective suit / disposable overall.

Personnel should wear antistatic clothing made of natural fibres or of high-

temperature-resistant synthetic fibres.

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

: 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

Appearance

Physical state : Liquid.

Colour Black, Blue., Green., Grey, MCI Base 1, MCI Base 3, Off-white., Red, White.,

Yellow.

Odour Characteristic. : Not applicable. **Odour threshold** Melting point/freezing point : Not applicable.

Initial boiling point and

boiling range

Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average:

232.88°C (451.2°F)

: Not applicable. **Flammability**

Lower and upper explosion

limit

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

Flash point : Closed cup: 29°C

: Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9, **Auto-ignition temperature**

aromatics).

Decomposition temperature Not available.

Ha : Not applicable. **Viscosity** : Not available.

Not soluble Solubility in water cold water

hot water Not soluble

Partition coefficient: n-octanol/: Not available.

water

: Highest known value: 2.7 kPa (20.3 mm Hg) (at 20°C) (hydrocarbons, C9-C12, Vapour pressure

n-alkanes, isoalkanes, cyclics, aromatics (2-25%)). Weighted average: 0.33

kPa (2.48 mm Hg) (at 20°C)

: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.43compared **Evaporation rate**

with butyl acetate

Density : 1.539 g/cm³

Vapour density : Highest known value: 11.7 (Air = 1) (epoxy resin (MW ≤ 700)). Weighted

average: 9.03 (Air = 1)

Explosive properties : Not available. Oxidising properties Not available.

Particle characteristics

Date of issue/Date of revision : 29.05.2024 : 29.05.2024 Version : 2.01 12/21 Date of previous issue

SECTION 9: Physical and chemical properties

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

: 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

: 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

Acute toxicity

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	11 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
butan-1-ol	LD50 Oral	Rat	790 mg/kg	-
benzyl alcohol	LD50 Oral	Rat	1230 mg/kg	-
hydrocarbons, c9-unsatd.,	LD50 Dermal	Rat	2000 mg/kg	-
polymd.				
	LD50 Oral	Rat	2000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
	LD50 Oral	Rat	2500 mg/kg	-
hexane-1,6-diol diacrylate	LD50 Oral	Rat	5 g/kg	-

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 CF Aluminium Comp A	12387.7	34509.8	N/A	163.0	N/A
xylene	4300	1100	N/A	11	N/A
butan-1-ol	500	N/A	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	11	N/A
ethylbenzene	3500	N/A	N/A	11	N/A
Phenol, styrenated	2500	N/A	N/A	N/A	N/A
2-Propenoic acid, reaction products with pentaerythritol	500	N/A	N/A	N/A	N/A
hexane-1,6-diol diacrylate	5000	N/A	N/A	N/A	N/A

Irritation/Corrosion

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 13/21

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	-
		5		milligrams	
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60	-
hanzul alaahal	Cyco Mild irritant	Mammal -		microliters	
benzyl alcohol	Eyes - Mild irritant		-	-	-
		species unspecified			
Phenol, methylstyrenated	Skin - Mild irritant	Mammal -	_		_
Therior, metrylstyrenated	OKIII - Willa IIIItalit	species			
		unspecified			
Phenol, styrenated	Eyes - Mild irritant	Rabbit	_	0.1 Mililiters	_
, ,	Skin - Mild irritant	Mammal -	-	-	-
		species			
		unspecified			
	Skin - Mild irritant	Rabbit	-	0.5 Mililiters	-
2-Propenoic acid, reaction	Eyes - Irritant	Mammal -	-	-	-
products with pentaerythritol		species			
		unspecified			
	Skin - Mild irritant	Mammal -	-	-	-
		species			
havana 1 6 dial digandata	Cyco Mild irritant	unspecified Mammal -			
hexane-1,6-diol diacrylate	Eyes - Mild irritant	species	-	-	-
		unspecified			
	Skin - Mild irritant	Mammal -	_	_	_
		species			
		unspecified			
		speeeu		ļ	

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
epoxy resin (MW ≤ 700)	skin	Mammal - species unspecified	Sensitising
hydrocarbons, c9-unsatd., polymd.	skin	Mouse	Sensitising
Phenol, methylstyrenated	skin	Mammal - species unspecified	Sensitising
Phenol, styrenated	skin	Mammal - species unspecified	Sensitising
2-Propenoic acid, reaction products with pentaerythritol	skin	Mammal - species unspecified	Sensitising
hexane-1,6-diol diacrylate	skin	Mammal - species unspecified	Sensitising

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 14/21

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 1		central nervous system (CNS)
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result
hydrocarbons, C9, aromatics xylene hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
(2-25%) ethylbenzene	ASPIRATION HAZARD - Category 1

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
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
hydrocarbons, C9, aromatics	Acute EC50 <10 mg/l	Daphnia	48 hours
	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
xylene	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Acute EC50 <10 mg/l	Daphnia	48 hours
	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 7700 μg/l Marine water	Algae - Skeletonema costatum	96 hours

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 15/21

SECTION 12: Ecological information

	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
Phenol, styrenated	Acute EC50 100 mg/l	Algae	72 hours
-	Acute EC50 54 mg/l	Daphnia	48 hours
	Acute LC50 25.8 mg/l	Fish	96 hours

Conclusion/Summary: 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 resin (MW ≤ 700) hydrocarbons, C9, aromatics	-		Not readily Not readily
xylene benzyl alcohol	-	-	Readily Readily
hydrocarbons, C9-C12, n-	- -		Not readily
alkanes, isoalkanes, cyclics, aromatics (2-25%)			
ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
epoxy resin (MW ≤ 700)	2.64 to 3.78	31	low
hydrocarbons, C9, aromatics	-	10 to 2500	high
xylene	3.12	8.1 to 25.9	low
butan-1-ol	1	-	low
benzyl alcohol	0.87	<100	low
hydrocarbons, c9-unsatd.,	3.627	-	low
polymd.			
hydrocarbons, C9-C12, n-	-	10 to 2500	high
alkanes, isoalkanes, cyclics, aromatics (2-25%)			
ethylbenzene	3.6	-	low
Phenol, methylstyrenated	3.627	-	low
2-Propenoic acid, reaction	1.45	-	low
products with pentaerythritol			
hexane-1,6-diol diacrylate	2.81	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
epoxy resin (MW ≤ 700)	No	N/A	No	No	No	N/A	No
hydrocarbons, C9, aromatics	No	N/A	No	No	No	N/A	No
xylene	No	N/A	No	No	No	N/A	No
butan-1-ol	No	N/A	N/A	No	N/A	N/A	N/A
benzyl alcohol	No	N/A	No	No	No	N/A	No
hydrocarbons, c9-unsatd., polymd.	No	N/A	N/A	No	N/A	N/A	N/A
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	No	N/A	No	Yes	No	N/A	No
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC	Specified	Specified

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 16/21

Pe	enguard Express CF Aluminium Comp A								
S	SECTION 12: Ecological information								
						(Recomme	nded)		T
	Phenol, styrenated	No	N/A	N/A	No	N/A	N/A	N/A	
	2-Propenoic acid, reaction products with pentaerythritol	No	N/A	N/A	No	N/A	N/A	N/A	
	hexane-1,6-diol diacrylate	No	N/A	N/A	No	N/A	N/A	N/A	

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

: 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

: 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.

Type of packaging	European waste catalogue (EWC)	
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 17/21

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint. Marine pollutant (epoxy resin (MW ≤ 700))	Paint
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
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 ≤5 L or ≤5 kg.

Hazard identification number 30

Tunnel code (D/E)

ADN : The environmentally hazardous substance mark is not required when transported in

sizes of ≤5 L or ≤5 kg.

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Emergency schedules F-E, S-E

IATA : The environmentally hazardous substance mark may appear if required by other

transportation regulations.

14.6 Special precautions for

user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

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 EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name		Reference number	Date of revision
vPvB	Phenol, methylstyrenated	Recommended	D(2023) 8585-DC	23.01.2024

Date of issue/Date of revision : 29.05.2024 Date of previous issue : 29.05.2024 Version : 2.01 18/21

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Other EU regulations

VOC : 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.

VOC for Ready-for-Use

Mixture

: Not available.

: Listed

: Listed

Industrial emissions (integrated pollution

prevention and control) -

Air

Industrial emissions (integrated pollution

prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

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.

Norway

Product registration

number

: Under declaration

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.

Date of issue/Date of revision : 29.05.2024 : 29.05.2024 Date of previous issue Version : 2.01 19/21

SECTION 15: Regulatory information

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: 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 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. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 2, H373 (central nervous system (CNS))	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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 4 Aquatic Chronic 2	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

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SECTION 16: Other information

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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