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 Jotun Paints (Europe) Ltd.

P.O.Box 2021 Stather Road

3202 Sandefjord Flixborough, Scunthorpe Norway North Lincolnshire

Tel: + 47 33 45 70 00 DN15 8RR Fax: +47 33 45 72 42 England

E-mail: SDSJotun@jotun.no

Tel: +44 17 24 40 00 00 Fax: +44 17 24 40 01 00

1.4 Emergency telephone number

National advisory body/Poison Centre

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

Supplier

Telephone number : +47 33 45 70 00 Jotun Norway (head office)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 2, H411

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

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

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

2.2 Label elements

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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.

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.

Storage : Not applicable.

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

national and international regulations.

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 requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture 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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
poxy resin (MW ≤ 700) hydrocarbons, C9, aromatics	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2 REACH #:	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 Flam. Liq. 3, H226	[1]
Trydrodarbons, 60, dromatics	01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6		STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	
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	[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	[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	[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) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
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	[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	<1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2,	[1]

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Penguard Express CF Aluminium Comp A SECTION 3: Composition/information on ingredients CAS: 61788-44-1 H411 2-Propenoic acid, reaction REACH #: <1 Acute Tox. 4. H302 [1] products with pentaerythritol 01-2119490003-49 Skin Irrit. 2. H315 EC: 629-850-6 Eye Dam. 1, H318 CAS: 1245638-61-2 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 Skin Irrit. 2, H315 REACH #: ≤0.3 [1] hexane-1,6-diol diacrylate 01-2119484737-22 Eye Irrit. 2, H319 Skin Sens. 1, H317 EC: 235-921-9 CAS: 13048-33-4 Aquatic Chronic 3, Index: 607-109-00-8 H412 See Section 16 for the full text of the H

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.

Type

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for vPvB

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

statements declared

above.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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SECTION 4: First aid measures

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

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon dioxide carbon monoxide metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage

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

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m³ 8 hours.
butan-1-ol	TWA: 50 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
Julian Tol	through skin. STEL: 154 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin. STEL: 552 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers]
	BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.

procedures

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

DNELs/DMELs

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
poxy resin (MW ≤ 700)	DNEL	Long term Dermal	89.3 µg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	0.5 mg/kg	General	Systemic
	DAIEI	D	bw/day	population	0
	DNEL	Long term Dermal	0.75 mg/	Workers	Systemic
	DNEL	Long term	kg bw/day 0.87 mg/m³	General	Systemic
	DIVLL	Inhalation	0.07 mg/m	population	Cysternic
	DNEL	Long term	4.93 mg/m ³		Systemic
		Inhalation			
hydrocarbons, C9, aromatics	DNEL	Long term Dermal	12.5 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	151 mg/m ³	Workers	Systemic
	DNEL	Inhalation	7.5 mg/kg	General	Systemia
	DINEL	Long term Dermal	7.5 mg/kg bw/day	population	Systemic
			DW/day	[Consumers]	
	DNEL	Long term	32 mg/m³	General	Systemic
		Inhalation	g	population	-,
				[Consumers]	
	DNEL	Long term Oral	7.5 mg/kg	General	Systemic
			bw/day	population	
	DAIEI	1	0.44	[Consumers]	0
	DNEL	Long term Inhalation	0.41 mg/m ³		Systemic
	DNEL	Long term	1.9 mg/m³	population Workers	Systemic
	DIVLL	Inhalation	1.9 mg/m	WORKEIS	Gysternic
	DNEL	Long term	178.57 mg/	General	Local
		Inhalation	m ³	population	
	DNEL	Short term	640 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	837.5 mg/	Workers	Local
	DNE	Inhalation	m ³	\^/ = w < = w=	Lagal
	DNEL	Short term Inhalation	1066.67 mg/m³	Workers	Local
	DNEL	Short term	1152 mg/	General	Systemic
	DIVLE	Inhalation	m ³	population	Cysternio
	DNEL	Short term	1286.4 mg/	• •	Systemic
		Inhalation	m³		,
xylene	DNEL	Long term Oral	5 mg/kg	General	Systemic
	5.151		bw/day	population	
	DNEL	Long term	65.3 mg/m ³		Local
	DNEL	Inhalation Long term	65.3 mg/m ³	population General	Systemic
	DIVLL	Inhalation	00.0 mg/m	population	Cysternic
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
		<u>.</u>	bw/day	 .	l
	DNEL	Long term	221 mg/m ³	Workers	Local
	DNEL	Inhalation Long term	221 mg/m³	Workers	Systemic
	DINCL	Inhalation	22 i ilig/ili	AA OI VOI 2	Gysteriile
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation	,	population	
	DNEL	Short term	260 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	442 mg/m ³	Workers	Local
	DAIE	Inhalation	440 1 2	\\/ = w < c ==	C. rata rai-
	DNEL	Short term	442 mg/m ³	Workers	Systemic
butan-1-ol	DNEL	Inhalation Long term Oral	1.5625 mg/	General	Systemic
Salari i di		Long tolli Olai	1.0020 mg/	Johnan	Systemio
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SECTION 8: Exposure controls/personal protection

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DNEL DNEL Cong term Dermal DNEL Cong term DNEL		DINEL		27 mg/m²		Systemic
hydrocarbons, c9-unsatd., polymd. hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) DNEL DNEL Long term Inhalation DNEL Long term Dermal Inhalation DNEL DNEL Long term Dermal Inhalation DNEL Long term Dermal DNEL Long term Dermal Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL		40 //		Customia
hydrocarbons, c9-unsatd., polymd. DNEL Long term Dermal Long term Dermal Inhalation DNEL		DNEL	Snort term Dermai		vvorkers	Systemic
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hydrocarbons, c9-unsatd., polymd. DNEL Long term		DNEL		110 mg/m ³	vvorkers	Systemic
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) DNEL Long term Inhalation DNEL Long term Dermal Inhalation DNEL Long term Oral Demail Doulation General population Ge		DAIEI		0.5 //	\A	
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) DNEL Long term Inhalation DNEL Long term Oral Long term Oral Detail Inhalation DNEL Long term Oral Detail Demail Description or Detail Inhalation DNEL Long term Oral Description or Desc	hydrocarbons, c9-unsatd., polymd.	DNEL	Long term Dermal		Workers	Systemic
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) DNEL Long term Dermal (2-25%) DNEL Long term Dermal DNEL Long term Dermal Inhalation DNEL Long term Dermal DNEL Long term DNEL DNEL Long term DNEL DNEL Long term DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL						
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isoalkanes, cyclics, aromatics (2-25%) DNEL Long term Dermal bw/day DNEL Long term Dermal Long term Dermal DNEL Long term Dermal DNEL Long term Oral DNEL Long term Dopulation DNEL Systemic DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL						
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DNEL Long term Dermal 44 mg/kg bw/day 71 mg/m³ General population DNEL Long term Dermal 26 mg/kg bw/day DNEL Long term Oral 26 mg/kg bw/day DNEL Long term Oral 26 mg/kg bw/day Long term Dermal Inhalation DMEL Short term Inhalation DNEL Long term Oral DNEL Long term Oral Long term Oral DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal Inhalation DNEL Long term DNEL Short term DNEL Long term DNEL Long term DNEL Long term DNEL Long term DNEL Short term DNEL Long term DNEL Short term DNEL Long term DNEL Long term DNEL Short term DNEL S			Inhalation			
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ethylbenzene DNEL Long term Oral 26 mg/kg bw/day population General population Workers Local DMEL Short term Inhalation DNEL Long term Oral Long term Oral Long term Oral DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term DNEL Long term DNEL Long term Inhalation DNEL Long term DNEL Long term DNEL Long term DNEL Short term Inhalation DNEL Long term DNEL DNEL Long term DNEL						
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ethylbenzene DMEL Long term Inhalation DMEL Short term Short term Inhalation DNEL Long term Oral DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Dermal DNEL Short term Inhalation DNEL Long term Dermal DNEL Dermanger Dermal DNEL Dermanger Dermal DNEL Dermanger Dermanger Dermal DNEL Dermanger De		DNEL	Long term Oral			Systemic
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DMEL Short term Inhalation DNEL Long term Oral 1.6 mg/kg bw/day DNEL Long term 15 mg/m³ General population DNEL Long term 15 mg/m³ Workers Systemic DNEL Long term 15 mg/m³ General population DNEL Long term 180 mg/kg bw/day DNEL Short term 180 mg/kg bw/day DNEL Short term 293 mg/m³ Workers Systemic DNEL Cong term Dermal DNEL Short term 16.4 mg/kg bw/day DNEL Long term Dermal DNEL Long term Dermal Long term Dermal DNEL Cong term Dermal Long term Dermal Inhalation DNEL Long term Dermal Systemic DNEL Cong term Dermal DNEL Cong term Dermal Inhalation [Consumers]	ethylbenzene	DMEL		442 mg/m³	Workers	Local
Inhalation Long term Oral 1.6 mg/kg bw/day population Systemic DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dopulation DNEL Long term Dopulation DNEL Long term Dopulation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dopulation Systemic DNEL Short term Dopulation DNEL Long term Dermal DNEL Long term Dopulation Systemic Systemic DNEL Systemic Systemic Systemic DNEL Long term Dopulation Dopulat						
DNEL Long term Oral bw/day bw/day DNEL Long term Inhalation DNEL Long term Dermal Inhalation Inhala		DMEL		884 mg/m³	Workers	Systemic
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Inhalation DNEL Long term T7 mg/m³ Workers Systemic						
DNEL Long term Inhalation DNEL Long term Dermal DNEL Short term Inhalation DNEL Long term Dermal DNEL Short term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation		DNEL	•	15 mg/m³		Systemic
DNEL Long term Dermal 180 mg/kg bw/day 293 mg/m³ Workers Local			Inhalation		population	
DNEL Long term Dermal 180 mg/kg bw/day DNEL Short term 193 mg/m³ Workers DNEL Long term Dermal 16.4 mg/kg bw/day DNEL Long term Dermal 16.4 mg/kg bw/day DNEL Long term Dermal 57 mg/m³ General population [Consumers]		DNEL	Long term	77 mg/m³	Workers	Systemic
Phenol, methylstyrenated DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Long term Inhalation						
Phenol, methylstyrenated DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Long term Inhalation		DNEL	Long term Dermal		Workers	Systemic
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Phenol, methylstyrenated DNEL Inhalation Long term Dermal 16.4 mg/ kg bw/day 57 mg/m³ General population Consumers] Systemic Sy		DNEL	Short term	293 mg/m ³	Workers	Local
DNEL Long term Kg bw/day 57 mg/m³ General Systemic population [Consumers]			Inhalation			
DNEL Long term Kg bw/day 57 mg/m³ General Systemic population [Consumers]	Phenol, methylstyrenated	DNEL	Long term Dermal	16.4 mg/	Workers	Systemic
DNEL Long term 57 mg/m³ General Systemic population [Consumers]			_			-
Inhalation population [Consumers]		DNEL	Long term		General	Systemic
[Consumers]				J		1
		DNEL	Long term Dermal	8 mg/ka		Systemic
				J. J		1

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SECTION 8: Exposure controls/personal protection

			bw/day	population	
				[Consumers]	
	DNEL	Long term	28 mg/m³	General	Systemic
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Oral	4 mg/kg	General	Systemic
			bw/day	population	
			-	[Consumers]	
	DNEL	Long term Oral	0.2 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Long term	0.348 mg/	General	Systemic
		Inhalation	m³	population	,
	DNEL	Long term	1.41 mg/m ³		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
	D. \L_	Zong tonii Zoniiai	bw/day	VV GIRGIG	Cyclonia
Phenol, styrenated	DNEL	Long term Oral	0.75 mg/	General	Systemic
Thomas, etyroniated	D. 122	Zong tonii Orai	kg bw/day	population	Cycloniic
	DNEL	Long term Dermal	0.75 mg/	General	Systemic
	D. 122	Zong toni Bonna	kg bw/day	population	Cycloniic
	DNEL	Long term	1.31 mg/m ³		Systemic
	DIVLE	Inhalation	n.o i mg/m	population	Cycloniic
	DNEL	Long term Dermal	2.1 mg/kg	Workers	Systemic
	5.422	Long torm Dormar	bw/day		2,5:0::::0
	DNEL	Long term	7.4 mg/m ³	Workers	Systemic
	DIVLE	Inhalation	7 T IIIg/III	VVOINCIS	Cyclonic
hexane-1,6-diol diacrylate	DNEL	Long term Dermal	1.66 mg/	General	Systemic
Tickario-1,0-dioi diadi yiate	DIVLE	Long term Dermai	kg bw/day	population	Оузівініс
	DNEL	Long term Oral	2.1 mg/kg	General	Systemic
	DIVEL	Long term Oral	bw/day	population	Oysicillic
	DNEL	Long term Dermal	2.77 mg/	Workers	Systemic
	DINEL	Long term Dermai	kg bw/day	VVOIKEIS	Systerric
	DNEL	Long term	7.2 mg/m ³	General	Systemic
	DINEL	Inhalation	1.2 mg/m	population	Oysiellile
	DNEL		24 5 mg/m³		Systemia
	DINEL	Long term Inhalation	24.5 mg/m ³	VVOIKEIS	Systemic
		IIIIIalalloll			

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
poxy resin (MW ≤ 700)	Fresh water	0.006 mg/l	-
	Marine	0.0006 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	0.996 mg/l	-
	Marine water sediment	0.0996 mg/l	-
	Soil	0.196 mg/l	-
ylene	Fresh water	0.327 mg/l	-
	Marine	0.327 mg/l	-
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	-
utan-1-ol	Fresh water	0.082 mg/l	-
	Marine	0.0082 mg/l	-
	Sewage Treatment Plant	2476 mg/l	-
	Fresh water sediment	0.178 mg/kg dwt	-
	Marine water sediment	0.0178 mg/kg dwt	-
	Soil	0.015 mg/kg dwt	-
enzyl alcohol	Fresh water	1 mg/l	-

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SECTION 8: Exposure controls/personal protection

	<u> </u>		
	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	-
hydrocarbons, 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	-
	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	-

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection 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.

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SECTION 8: Exposure controls/personal protection

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.

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.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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.

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

Initial boiling point and

boiling range **Flammability**

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

232.88°C (451.2°F)

Upper/lower flammability or

explosive limits

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

: Closed cup: 29°C (84.2°F) Flash point

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

aromatics).

: Not applicable.

Decomposition temperature

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

Solubility(ies)

Media	Result
cold water	Not soluble
hot water	Not soluble

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SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/ : Not available.

water

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

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

kPa (2.48 mm Hg) (at 20°C)

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

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

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 : 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 may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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,	LD50 Dermal	Rat	2000 mg/kg	-
C9-unsaturated, polymerized				
•	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	-
hexamethylene diacrylate; hexane-1,6-diol diacrylate	LD50 Oral	Rat	5 g/kg	-

Acute toxicity estimates

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SECTION 11: Toxicological information

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

Product/ingredient name	Result	Species	Score	Exposure	Observation
poxy 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	-
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
Phenol, methylstyrenated	Skin - Mild irritant	Mammal - 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 products with pentaerythritol	Eyes - Irritant	Mammal - species	-	-	-
	Skin - Mild irritant	unspecified Mammal - species unspecified	-	-	-
hexamethylene diacrylate; hexane-1,6-diol diacrylate	Eyes - Mild irritant	Mammal - species	-	-	-
	Skin - Mild irritant	unspecified Mammal - species unspecified	-	-	-

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
ppoxy resin (MW ≤ 700)	skin	Mammal - species unspecified	Sensitising
hydrocarbons, C9-unsaturated, polymerized	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
hexamethylene diacrylate; hexane-1,6-diol diacrylate	skin	Mammal - species unspecified	Sensitising

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SECTION 11: Toxicological information

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)

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 (2-25%)	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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

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SECTION 11: Toxicological information

General

May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Other information : None identified.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

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

Product/ingredient name	Result	Species	Exposure
poxy 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 - Daggerblade grass shrimp - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Fathead minnow - 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 - Diatom - Skeletonema costatum	96 hours
	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
poxy resin (MW ≤ 700)	-	-	Not readily
hydrocarbons, C9, aromatics	-	-	Not readily
xylene	-	-	Readily
benzyl alcohol	-	-	Readily
hydrocarbons, C9-C12, n-	-	-	Not readily
alkanes, isoalkanes, cyclics,			
aromatics (2-25%)			
ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
poxy 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,	3.627	-	low
C9-unsaturated, polymerized			
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			
hexamethylene diacrylate;	2.81	-	low
hexane-1,6-diol diacrylate			

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
poxy 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,	No	N/A	N/A	No	N/A	N/A	N/A
C9-unsaturated, polymerized							
hydrocarbons, C9-C12, n-	No	N/A	No	Yes	No	N/A	No
alkanes, isoalkanes, cyclics,							
aromatics (2-25%)							
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC	Specified	Specified
					(Recommended)	•	·
Phenol, styrenated	No	N/A	N/A	No	N/A	N/A	N/A
2-Propenoic acid, reaction	No	N/A	N/A	No	N/A	N/A	N/A
products with pentaerythritol							
hexamethylene diacrylate;	No	N/A	N/A	No	N/A	N/A	N/A
hexane-1,6-diol diacrylate							

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

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SECTION 13: Disposal considerations

Hazardous waste

Waste catalogue

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.

Type of packaging	Waste catalogue			
CEPE Guidelines 15 01 10* packa		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.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN 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.

user

14.6 Special precautions for : 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.

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SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
₩PvB	oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Recommended	D(2023) 8585-DC	23.01.2024

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c E2	

EU regulations

Industrial emissions : Listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

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SECTION 15: Regulatory information

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

 This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

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	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

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SECTION 16: Other information

Acute Tox. 4 **ACUTE TOXICITY - Category 4** Aquatic Chronic 2 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 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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