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

SAFETY DATA SHEET



TEKNOTHERM 4400 - All variants

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

1.1	Product identifier	
Pr	oduct name	

: TEKNOTHERM 4400 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

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National contact

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

National advisory body/Poison Centre

 Telephone number
 : Malta Competition and Consumer Affairs Authority (MCCAA): +356 2395 2000

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 Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

Hazard pictograms



Signal word Hazard statements

- : Danger
- : 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.
 - H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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SECTION 2: Hazards identification

SECTION 2: Hazarus	filincali	
Prevention	P210 - Keep sources. No	protective gloves. Wear eye or face protection. away from heat, hot surfaces, sparks, open flames and other ignition smoking. t breathe vapour.
Response	ninutes. Rer	+ P338 + P310 - IF IN EYES: Rinse cautiously with water for several nove contact lenses, if present and easy to do. Continue rinsing. call a POISON CENTER or doctor.
Storage	Not applicabl	е.
Disposal		se of contents and container in accordance with all local, regional, nternational regulations.
Hazardous ingredients	1-methyleth Reaction pro	ene; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[/lidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane; iso-butanol and duct of 4,4'-Isopropylidenediphenol, oligomeric reaction products with epoxypropane and aqueous phosphoric acid, 2-butoxyethanol, 2- no) ethanol
Supplemental label elements	Narning! Ha	zardous respirable droplets may be formed when sprayed. Do not / or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles		
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	Γhis mixture /ΡνΒ.	does not contain any substances that are assessed to be a PBT or a
Other hazards which do not result in classification	None known.	

SECTION 3: Composition/information on ingredients

Product/ingredient name	dentifiers	%	Classification	Specific Conc.	Туре
				Limits, M-factors and ATEs	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(Petroleum), heavy aromatic 0 E C	REACH #: 01-2119463583-34 EC: 265-198-5 CAS: 64742-94-5 Index: 649-424-00-3	≤12	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
0 E C	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤12	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxirane	CAS: 25036-25-3	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
iso-butanol R	REACH #:	≤5.2	Flam. Liq. 3, H226	-	[1]

SECTION 3: Compo			•	I	1
	01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1		Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336		
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤5	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
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) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	-	[1] [2]
Butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤1.2	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] = 790 mg/kg	[1]
Reaction product of 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and aqueous phosphoric acid, 2-butoxyethanol, 2- (dimethylamino) ethanol	REACH #: 01-2120768442-51 EC: 945-830-2	<3	Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 3, H412	-	[1]
2-ethoxy-1-methylethyl acetate	REACH #: 01-2119475116-39 EC: 259-370-9 CAS: 54839-24-6 Index: 603-177-00-8	≤1	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. Contains: > 1 % TiO2

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid 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.			
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.			
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.

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SECTION 5: Firefighting measures				
5.1 Extinguishing media				
Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.		
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 harmful 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 monoxide sulfur oxides 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		

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.

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.

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SECTION 6: Accidental release measures

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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
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

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. 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.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

Recommendations

- : Not available.
- Industrial sector specific solutions
- : Not available.

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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	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours.
2 Butowysthenel	STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes.
2-Butoxyethanol	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes.
2-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes.

Biological exposure indices

No exposure indices known.

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	Туре	Exposure	Value	Population	Effects
Solvent Naphta (Petroleum), heavy aromatic	DNEL	Long term Oral	0.03 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.28 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.69 mg/m ³		Local
	DNEL	Long term Inhalation	0.69 mg/m ³		Systemic
	DNEL	Long term Dermal	0.95 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.31 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	2.31 mg/m ³	Workers	Systemic
	DNEL	Short term Oral	25.6 mg/	General	Systemic
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			kg bw/day	population	
	DNEL	Short term	143.5 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	160.23 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	226 mg/m ³	General	Systemic
		Inhalation	_	population	
	DNEL	Short term	384 mg/m ³	Workers	Systemic
		Inhalation	-		
Xylene	DNEL	Long term	65.3 mg/m ³	General	Local
-		Inhalation		population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation	Ū	population	
	DNEL	Short term	260 mg/m ³	General	Systemic
		Inhalation	5	population	,
	DNEL	Long term	221 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	-) - ! - ! - ! - ! - ! - ! - ! - ! - !
	DNEL	Long term	65.3 mg/m ³	General	Systemic
		Inhalation	ing/iii	population	- ,
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
	DINEL	Long tonn Donna	bw/day	population	Cysternio
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
	DINEL	Long term Derma	bw/day	Workers	Cysternic
	DNEL	Long term	221 mg/m ³	Workers	Systemic
	DINLL	Inhalation	221 mg/m	VUINEIS	Systemic
	DNEL	Short term	442 mg/m ³	Workers	Local
	DINLL	Inhalation	442 mg/m	VUINEIS	LUCAI
	DNEL		110 mg/m ³	Markara	Sustamia
	DNEL	Short term	442 mg/m ³	Workers	Systemic
ing hutangl		Inhalation		Comorrol	
iso-butanol	DNEL	Long term	55 mg/m³	General	Local
		Inhalation	210	population	
	DNEL	Long term	310 mg/m ³	Workers	Local
		Inhalation			
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	26.7 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	59 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	147 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term	246 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	15 mg/m ³	General	Systemic
		Inhalation		population	-
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
			bw/day		,
	DNEL	Short term	293 mg/m ³	Workers	Local
		Inhalation	3		
	DMEL	Long term	442 mg/m ³	Workers	Local
		Inhalation	· · - · · · g/ · · ·		
	DMEL	Short term	884 mg/m³	Workers	Systemic
		Inhalation	55		0,0001110
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/	General	Systemic
			1 3.20 mg/		

			kg bw/day	population	
	DNEL	Long term	67.5 mg/m ³	Workers	Local
		Inhalation			l
	DNEL	Short term	101.2 mg/	Workers	Local
		Inhalation	m³		
Butan-1-ol	DNEL	Long term Oral	1.5625 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	3.125 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	55.357 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Long term	155 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	310 mg/m ³	Workers	Local
		Inhalation			
Reaction product of 4,4'-	DNEL	Long term	8.7 mg/m ³	General	Systemic
Isopropylidenediphenol, oligomeric		Inhalation		population	
reaction products with 1-chloro-				[Consumers]	
2,3-epoxypropane and aqueous					
phosphoric acid, 2-butoxyethanol, 2-					
(dimethylamino) ethanol					
	DNEL	Long term Dermal	5 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
	DNEL	Long term Oral	2.5 mg/kg	General	Systemic
				population	
				[Consumers]	
	DNEL	Long term	29.4 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	8.3 mg/kg	Workers	Systemic
			bw/day		
2-ethoxy-1-methylethyl acetate	DNEL	Long term	152 mg/m³	Workers	Systemic
		Inhalation		_	
	DNEL	Long term Oral	13.1 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	62 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	103 mg/kg	Workers	Systemic
			bw/day	_	
	DNEL	Long term	181 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Short term	1420 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	2366 mg/	Workers	Systemic
		Inhalation	m³		

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Reaction product of 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane and aqueous phosphoric acid, 2-butoxyethanol, 2-(dimethylamino) ethanol	Fresh water	52 µg/l	Assessment Factors
	Marine water Fresh water sediment Marine water sediment Sewage Treatment Plant Soil Secondary Poisoning	5.2 μg/l 0.6 mg/kg 0.06 mg/kg 10 mg/l 0.09 mg/kg 20 mg/kg	Assessment Factors Sensitivity Distribution Sensitivity Distribution Assessment Factors Sensitivity Distribution Assessment Factors

8.2 Exposure controls

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SECTION 8: Exposure controls/personal protection

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 measu	<u>'es</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard 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	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.
Body protection	 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Filter type: A
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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	: Various
Odour	: Slight

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SECTION 9: Physical and chemical properties

Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	1
boiling range	

Ingredient name		°C	°F	Method	
iso-butanol		108	226.4	OECD 103	
Butan-1-ol		119	246.2	OECD 103	
Flammability	: Not ava	ilable.	ł		

Lower and upper explosion limit	
Flash point	

: Lower: 0.8% Upper: 11.3%

: Closed cup: 25°C (77°F)

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Auto-ignition temperature

Ingredient name	Ingredient name		°F	Method	
2-(2-butoxyethoxy)ethanol	2-(2-butoxyethoxy)ethanol		410	DIN 51794	
Solvent Naphta (Petroleum), heavy aron	Solvent Naphta (Petroleum), heavy aromatic		428 to 482	ASTM E 659	
Decomposition temperature	: Not ava	ailable.			
рН	: Not app	olicable.			
Viscosity	: Kinema	atic (40°C): >20).5 mm²/s		
Solubility(ies)	:				
Not available.					
Solubility in water	: Not ava	ailable.			
Partition coefficient: n-octanol/ water	: Not app	olicable.			
Vapour pressure	:				

	Vapour Pressure at 20°C			V	apour pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
iso-butanol	<12.00102	<1.6	DIN EN 13016-2			
Ethylbenzene	9.30076	1.2				
Relative density	: Not	available.		·		
Density	: 1.1 🤅	g/cm³				
/apour density	: Not available.					
Explosive properties	: Not	: Not available.				
Oxidising properties	: Not available.					
Particle characteristics						
Median particle size	: Not	applicable.				

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	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

SECTION 10: Stability and reactivity

10.5 Incompatible materials

: Reactive or incompatible with the following materials: oxidising materials

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
iso-butanol	LC50 Inhalation Vapour	Rat	19200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
Butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Reaction product of 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and aqueous phosphoric acid, 2-butoxyethanol, 2- (dimethylamino) ethanol	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Route	ATE value
Oral	18034.85 mg/kg
Dermal	9516.95 mg/kg
Inhalation (vapours)	34.56 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Solvent Naphta (Petroleum),	Skin - Mild irritant	Rabbit	-	24 hours 500	-
heavy aromatic				uL	
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
-	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
ate of issue/Date of revision	Eyes - Severe irritant : 21/09/2023 Date of previo		- /09/2023	•	- ion :2

Butan-1-ol	Eyes - Seve		Rabbit	-	0.005 MI	-	
	Eyes - Seve	re irritant	Rabbit	-	24 hours 2	-	
	Skin - Mode	rate irritant	Rabbit	-	mg 24 hours 20 mg	-	
Conclusion/Summary	: Causes s	kin irritation.					
Sensitisation							
Conclusion/Summary	: May caus	: May cause an allergic skin reaction.					
<u>Mutagenicity</u>							
Conclusion/Summary	: Based on available data, the classification criteria are not met.						
Carcinogenicity							
Conclusion/Summary	: Based on	available dat	a, the classification	on criteria	are not met.		
Reproductive toxicity							
Product/ingradiant name	Matornal	Fortility	Dovelopmental	Sno	cios D	260	Exposu

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Reaction product of 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and aqueous phosphoric acid, 2-butoxyethanol, 2- (dimethylamino) ethanol	-	- Negative	Positive -	Rat	Oral: 300 mg/kg Oral: 1000 mg/ kg	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Solvent Naphta (Petroleum), heavy aromatic	Category 3	-	Narcotic effects
Xylene	Category 3	-	Respiratory tract irritation
iso-butanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-ethoxy-1-methylethyl acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 2	oral, inhalation oral, inhalation	-
Ethylbenzene	Category 2		hearing organs

Aspiration hazard

Product/ingredient name	Result
Solvent Naphta (Petroleum), heavy aromatic	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available. of exposure

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SECTION 11: Toxicological information

Potential acute health effect	<u>s</u>	
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 phy	ysio	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	1	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
Delayed and immediate offer	ote	as well as chronic effects from short and long-term exposure
Short term exposure	513	as well as chronic elects from short and long-term exposure
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
NUL avallable.		
Conclusion/Summary	:	Not available.
		Not available. 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.
Conclusion/Summary	:	May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very
Conclusion/Summary 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.

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

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SECTION 12: Ecological information

Result	Species	Exposure
Acute LC50 600 mg/l Marine water Acute LC50 1030000 µg/l Fresh water	Crustaceans - <i>Artemia salina</i> Daphnia - <i>Daphnia magna</i> - Neonate	48 hours 48 hours
Acute LC50 1330000 µg/l Fresh water Acute EC50 >1000 mg/l Fresh water Acute LC50 800000 µg/l Marine water Acute LC50 1250000 µg/l Marine water	Fish - Oncorhynchus mykiss Daphnia - Daphnia magna Crustaceans - Crangon crangon Fish - Menidia beryllina	96 hours 48 hours 48 hours 96 hours
Acute LC50 1300000 µg/l Fresh water Acute EC50 1983000 µg/l Fresh water	Fish - <i>Lepomis macrochirus</i> Daphnia - <i>Daphnia magna</i>	96 hours 48 hours 96 hours
Acute EC50 68 mg/l	Algae	72 hours
Acute EC50 >52 mg/l Acute LC50 90 mg/l	Daphnia Fish	48 hours 96 hours
	Acute LC50 600 mg/l Marine water Acute LC50 1030000 µg/l Fresh water Acute LC50 1330000 µg/l Fresh water Acute EC50 >1000 mg/l Fresh water Acute LC50 800000 µg/l Marine water Acute LC50 1250000 µg/l Marine water Acute LC50 1300000 µg/l Fresh water Acute EC50 1983000 µg/l Fresh water Acute LC50 1730000 µg/l Fresh water Acute EC50 68 mg/l	Acute LC50 600 mg/l Marine water Acute LC50 1030000 µg/l Fresh water Acute EC50 >1000 mg/l Fresh water Acute LC50 1250000 µg/l Marine water Acute LC50 1250000 µg/l Marine water Acute LC50 1250000 µg/l Fresh water Acute EC50 1300000 µg/l Fresh water Acute EC50 1983000 µg/l Fresh water Acute EC50 1730000 µg/l Fresh water Acute EC50 68 mg/lCrustaceans - Artemia salina Daphnia - Daphnia magna - NeonateAcute EC50 >1000 mg/l Fresh water Acute LC50 1250000 µg/l Marine water Acute EC50 1250000 µg/l Fresh water Acute EC50 1983000 µg/l Fresh water Acute EC50 68 mg/lCrustaceans - Crangon crangon Fish - Menidia beryllina Fish - Lepomis macrochirus Daphnia - Daphnia magna Fish - Pimephales promelas AlgaeAcute EC50 >52 mg/lDaphnia

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum	
iso-butanol	-	74 % - Read	ily - 28 days	-	-	
Conclusion/Summary : This product has not been tested for biodegradation.						
Product/ingredient name	Aquatic ha	alf-life	Photoly	sis	Biodegradability	
iso-butanol Reaction product of 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and aqueous phosphoric acid, 2-butoxyethanol, 2- (dimethylamino) ethanol	-		-		Readily Not readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Solvent Naphta (Petroleum),	2.8 to 6.5	99 to 5780	High
heavy aromatic			
Xylene	3.12	8.1 to 25.9	Low
iso-butanol	1	-	Low
2-Butoxyethanol	0.81	-	Low
Ethylbenzene	3.6	-	Low
2-(2-butoxyethoxy)ethanol	1	-	Low
Butan-1-ol	1	-	Low
2-ethoxy-1-methylethyl	0.76	-	Low
acetate			

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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SECTION 12: Ecological information

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

-	
13.1 Waste treatment meth	ods
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	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 080111*
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.
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 or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	111	III	111	Ш
14.5 Environmental hazards	No.	No.	No.	No.

Additional information ADR/RID

: Tunnel code (D/E)

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.

SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments

: Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

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Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
TEKNOTHERM 4400	≥90	3
2-(2-butoxyethoxy)ethanol	≤3	55 [Consumer paint]

Labelling

Other EU regulations		
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed
Explosive precursors	1	Not applicable.
Ozone depleting substance	es	(1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c	

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

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Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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SECTION 15: Regulatory information

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 informatio	n 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	Calculation method
Aquatic Chronic 3, H412	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.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H361	Suspected of damaging fertility or the unborn child.	
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. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
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
Repr. 2	REPRODUCTIVE TOXICITY - Category 2

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SECTION 16: Ot	her information
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
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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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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