SAFETY DATA SHEET



Label No : 49894

TEKNODUR AQUA 3390-05 - All variants

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

1.1 Product identifier

Product name : FEKNODUR AQUA 3390-05 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product 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

National contact

Teknos (UK) Limited, 7 Longlands Rd, Bicester, Oxfordshire OX26 5AH, United Kingdom. Tel. +44 (0) 1869 208005.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

<u>Classification according to UK CLP/GHS</u>

Skin Sens. 1, H317 Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

Hazard pictograms



Signal word : Warning

Hazard statements: H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response: $\overrightarrow{P}362 + P364 - Take off contaminated clothing and wash it before reuse.$

P302 + P352 - IF ON SKIN: Wash with plenty of water.

Storage : Not applicable.

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

national and international regulations.

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SECTION 2: Hazards identification

Supplemental label elements

: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

: Not applicable.

2.3 Other hazards

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

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

vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
Manium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	[1] [*]
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. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
2,4,7,9-tetramethyl-5-decyne- 4,7-diol	REACH #: 01-2119954390-39 EC: 204-809-1 CAS: 126-86-3	<1	Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
Ethanediol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	<1	Acute Tox. 4, H302 STOT RE 2, H373 (oral)	[1] [2]
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤1	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤0.3	Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1] [2]
Propylene glycol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤0.3	Not classified.	[2]
2-Dimethylaminoethanol	REACH #: 01-2119492298-24	≤0.3	Flam. Liq. 3, H226 Acute Tox. 4, H302	[1] [2]

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SECTION 3: Compo	sition/information on i	ingredients		
	EC: 203-542-8 CAS: 108-01-0 Index: 603-047-00-0		Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361d	[1]
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≤0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≤0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
			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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 μm not bound within a matrix.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get

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SECTION 4: First aid measures

medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is 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 metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

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

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

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SECTION 6: Accidental release measures

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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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8.1 Control parameters

Occupational exposure limits

Z-Butoxyethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m³ 15 minutes. TWA: 123 mg/m³ 8 hours.

Ethanediol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

TWA: 10 mg/m³ 8 hours. Form: Particulate TWA: 20 ppm 8 hours. Form: Vapour STEL: 40 ppm 15 minutes. Form: Vapour TWA: 52 mg/m³ 8 hours. Form: Vapour STEL: 104 mg/m³ 15 minutes. Form: Vapour

Ethanol EH40/2005 WELs (United Kingdom (UK), 1/2020).

TWA: 1000 ppm 8 hours. TWA: 1920 mg/m³ 8 hours.

Propylene glycol EH40/2005 WELs (United Kingdom (UK), 1/2020).

TWA: 10 mg/m³ 8 hours. Form: Particulate

TWA: 474 mg/m³ 8 hours. Form: total vapour and particulates TWA: 150 ppm 8 hours. Form: total vapour and particulates

2-Dimethylaminoethanol EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 22 mg/m³ 15 minutes. STEL: 6 ppm 15 minutes. TWA: 2 ppm 8 hours. TWA: 7.4 mg/m³ 8 hours.

acetone EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 3620 mg/m³ 15 minutes. STEL: 1500 ppm 15 minutes. TWA: 500 ppm 8 hours. TWA: 1210 mg/m³ 8 hours.

Propan-2-ol EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 1250 mg/m³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m³ 8 hours. TWA: 400 ppm 8 hours.

Butanone EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

STEL: 899 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 600 mg/m³ 8 hours. TWA: 200 ppm 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
Z -Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
Butanone	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 70 μmol/l, butan-2-one [in urine]. Sampling time: post shift.

Recommended monitoring procedures

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

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DNELs/DMELs

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Product/ingredient name	Туре	Exposure	Value	Population	Effects
2 -Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	26.7 mg/	General	Systemic
	DNE	1 4	kg bw/day	population	0
	DNEL	Long term Inhalation	59 mg/m³	General population	Systemic
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation	00 mg/m		
	DNEL	Short term	147 mg/m³	General	Local
	5	Inhalation	0.40	population	
	DNEL	Short term Inhalation	246 mg/m ³	Workers	Local
	DNEL	Short term	426 mg/m ³	General	Systemic
	DIVEE	Inhalation	120 1119/111	population	Cyclonic
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		
Solvent naphtha (petroleum), light	DNEL	Long term	0.41 mg/m ³		Systemic
aromatic	DNEL	Inhalation Long term	1.9 mg/m³	population Workers	Systemic
	DINCL	Inhalation	1.9 mg/m	VVOIRCIS	Oysternic
	DNEL	Long term	178.57 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	640 mg/m ³	General	Local
	DNEL	Inhalation Long term	837.5 mg/	population Workers	Local
	DIVEL	Inhalation	m ³	VVOIKEIS	Local
	DNEL	Short term	1066.67	Workers	Local
		Inhalation	mg/m³		
	DNEL	Short term	1152 mg/	General	Systemic
	DNEL	Inhalation Short term	m³ 1286.4 mg/	population Workers	Systemic
	DINLL	Inhalation	m ³	VVOIKEIS	Systemic
2,4,7,9-tetramethyl-5-decyne-4,7-diol	DNEL	Long term Oral	0.25 mg/	General	Systemic
			kg bw/day	population	-
	DNEL	Long term Dermal	0.25 mg/	General	Systemic
	DNEL	Long term	kg bw/day 0.43 mg/m³	population General	Systemic
	DIVLL	Inhalation	0.40 mg/m	population	Oystonio
	DNEL	Long term Dermal	0.5 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term Oral	0.75 mg/	General	Systemic
	DNEL	Short term Dermal	kg bw/day 0.75 mg/	population General	Systemic
	PINEL	Short term Dermal	kg bw/day	population	Cystoffile
	DNEL	Short term	1.29 mg/m ³		Systemic
	- · · - ·	Inhalation		population	
	DNEL	Short term Dermal	1.5 mg/kg	Workers	Systemic
	DNEL	Long term	bw/day 1.76 mg/m³	Workers	Systemic
	<i>□</i> . 1 ∟∟	Inhalation	7.7 5 mg/m		- 30.0.1110
	DNEL	Short term	5.28 mg/m ³	Workers	Systemic
	D	Inhalation	- , ^		
Ethanediol	DNEL	Long term Inhalation	7 mg/m³	General	Local
	DNEL	Long term	35 mg/m³	population Workers	Local
		Inhalation	,g,		
	DNEL	Long term Dermal	53 mg/kg	General	Systemic
	ראורי	l and town D	bw/day	population	Cymton-!-
	DNEL	Long term Dermal	106 mg/kg bw/day	Workers	Systemic
Ethanol	DNEL	Long term Oral	87 mg/kg	General	Systemic
	,		bw/day	population	- , - , - , - , - , - , - , - , - , - ,
	DNEL	Long term	114 mg/m³	General	Systemic
		Inhalation		population	
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ocorion o. Exposure o	,011ti 013/p	croonar prote	Ction		
	DNEL	Long term Dermal	206 mg/kg	General	Systemic
	DNE	Langtanna Dannad	bw/day	population	Cyrotomeia
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	950 mg/m ³	General	Local
		Inhalation	000 mg/m	population	20041
	DNEL	Long term	950 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term	1900 mg/	Workers	Local
Propylene glycol	DNEL	Inhalation	m³ 10 mg/m³	General	Local
Propylene glycol	DINEL	Long term Inhalation	10 mg/m	population	Local
	DNEL	Long term	10 mg/m ³	Workers	Local
		Inhalation	J		
	DNEL	Long term	50 mg/m³	General	Systemic
	DATE	Inhalation	100 / 3	population	
	DNEL	Long term Inhalation	168 mg/m ³	Workers	Systemic
2-Dimethylaminoethanol	DNEL	Long term Oral	0.126 mg/	General	Systemic
2 Dimetrylamineetianer	DIVEE	Long tomi oral	kg bw/day	population	Gyotomio
	DNEL	Long term Dermal	0.25 mg/	Workers	Systemic
		_	kg bw/day		
	DNEL	Long term	0.43755	General	Systemic
	חאבו	Inhalation	mg/m³	population	Cuatamia
	DNEL	Short term Dermal	1.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	1.76 mg/m ³	Workers	Local
		Inhalation	5 9		
	DNEL	Long term	1.76 mg/m ³	Workers	Systemic
	5,151	Inhalation			
	DNEL	Short term	5.28 mg/m ³	Workers	Systemic
	DNEL	Inhalation Short term	13.53 mg/	Workers	Local
	DIVLE	Inhalation	m ³	VVOIREIS	Local
	DNEL	Short term Dermal	100 µg/cm²	Workers	Local
propylidynetrimethanol	DNEL	Long term Oral	0.34 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.34 mg/	General	Systemic
	DNEL	Long term	kg bw/day 0.58 mg/m³	population General	Systemic
	DIVLE	Inhalation	0.36 mg/m	population	Systemic
	DNEL	Long term Dermal	0.94 mg/	Workers	Systemic
		•	kg bw/day		
	DNEL	Long term	3.3 mg/m ³	Workers	Systemic
acatana		Inhalation	62 ma/ka	Conoral	Systemis
acetone	DNEL	Long term Oral	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	62 mg/kg	General	Systemic
		•	bw/day	population	
	DNEL	Long term Dermal	186 mg/kg	Workers	Systemic
		Lana da ser	bw/day	Camanal	O. mata marks
	DNEL	Long term	200 mg/m ³	General	Systemic
	DNEL	Inhalation Long term	1210 mg/	population Workers	Systemic
	DINCE	Inhalation	m ³	VVOINGIO	Cystellilo
	DNEL	Short term	2420 mg/	Workers	Local
		Inhalation	m³	_	
Propan-2-ol	DNEL	Long term Oral	26 mg/kg	General	Systemic
	DNEI	Long term	bw/day	population General	Systemic
	DNEL	Long term Inhalation	89 mg/m³	general population	Systemic
	DNEL	Long term Dermal	319 mg/kg	General	Systemic
		J = 231	bw/day	population	
	DNEL	Long term	500 mg/m ³	Workers	Systemic
		Inhalation	000 "	VA/ = wlee = 0	O. m.t.a.m.d.
	DNEL	Long term Dermal	888 mg/kg	Workers	Systemic

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			bw/day		
Butanone	DNEL	Long term Oral	0 0		Systemic
			bw/day	population	
	DNEL	Long term	106 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	412 mg/kg	General	Systemic
			bw/day	population	-
	DNEL	Long term	600 mg/m ³	Workers	Systemic
		Inhalation	•		•
	DNEL	Long term Dermal	1161 mg/	Workers	Systemic
			kg bw/day		•

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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 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: safety glasses with side-shields.

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.

> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm Not recommended polyvinyl alcohol (PVA) 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.

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 (spray application): A F

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.

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SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Liquid.Colour: VariousOdour: Slight

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
water	100	212	
Solvent naphtha (petroleum), light aromatic	135 to 210	275 to 410	

Flammability (solid, gas) : Not available.

Upper/lower flammability or explosive limits : ✓ Upper: 7.6%

Flash point : Dosed cup: >100°C (>212°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
2 -Butoxyethanol	230	446	DIN 51794
Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	

Decomposition temperature: Not available.

PH : 7.9 to 8.5 [Conc. (% w/w): 100%]

Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure :

	Va	Vapour Pressure at 20°C			apour pres	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
2-Butoxyethanol	0.75006	0.1				

 Relative density
 : Not available.

 Density
 : ₹.3 g/cm³

 Vapour density
 : Not available.

 Explosive properties
 : Not available.

 Oxidising properties
 : Not available.

Particle characteristics

Median particle size : Not applicable.

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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 : No specific data.

10.5 Incompatible materials : No specific data.

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 toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha	LD50 Oral	Rat	8400 mg/kg	-
(petroleum), light aromatic				
Ethanediol	LD50 Oral	Rat	4700 mg/kg	-
Reaction mass of Bis	LD50 Dermal	Rat	>3170 mg/kg	-
(1,2,2,6,6-pentamethyl-				
4-piperidyl) sebacate and				
Methyl				
1,2,2,6,6-pentamethyl-				
4-piperidyl sebacate				
	LD50 Oral	Rat	3230 mg/kg	-
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Propylene glycol	LD50 Dermal	Rabbit	20800 mg/kg	-
	LD50 Oral	Rat	20 g/kg	-
2-Dimethylaminoethanol	LC50 Inhalation Gas.	Rat	1641 ppm	4 hours
	LD50 Oral	Rat	2 g/kg	-
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-
acetone	LD50 Oral	Rat	5800 mg/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
·	LD50 Oral	Rat	5000 mg/kg	-
Butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value
Inhalation (gases)	38771.86 mg/kg 1303774.5 ppm 355.41 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
tranium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug I	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Solvent naphtha (petroleum), light aromatic	Eyes - Mild irritant	Rabbit	-	24 hours 100 uL	-

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SECTION 11: Toxicological information 2,4,7,9-tetramethyl-5-decyne-Eyes - Severe irritant Rabbit 0.1 MI 4.7-diol Skin - Mild irritant Rabbit 0.5 gEthanediol Rabbit Eyes - Mild irritant 1 hours 100 mq 24 hours 500 Eyes - Mild irritant Rabbit mg Eyes - Moderate irritant Rabbit 6 hours 1440 Skin - Mild irritant Rabbit 555 mg Ethanol Eyes - Mild irritant Rabbit 24 hours 500 mg Eyes - Moderate irritant Rabbit 0.066666667 minutes 100 mg Eyes - Moderate irritant Rabbit 100 uL Eyes - Severe irritant Rabbit 500 mg Skin - Mild irritant Rabbit 400 mg Skin - Moderate irritant Rabbit 24 hours 20 mg Propylene glycol Eyes - Mild irritant 100 mg Rahhit Rabbit Eyes - Mild irritant 24 hours 500 mq Skin - Mild irritant Human 168 hours 500 mg Skin - Mild irritant Woman 96 hours 30 Skin - Moderate irritant Child 96 hours 30 % C Skin - Moderate irritant Human 72 hours 104 mg I 2-Dimethylaminoethanol Eyes - Severe irritant Rabbit 5 uL Skin - Mild irritant Rabbit 445 mg acetone Eyes - Mild irritant Human 186300 ppm Eyes - Mild irritant Rabbit 10 uL Eyes - Moderate irritant 24 hours 20 Rabbit mg

Conclusion/Summary

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

Rabbit

Rabbit

Rabbit

Rabbit

Rabbit

Rabbit

Rabbit

Rabbit

Rabbit

20 mg

10 mg

100 mg

500 mg

mq

mg

mg

mg

395 ma

24 hours 500

24 hours 100

24 hours 14

24 hours 500

Sensitisation

Propan-2-ol

Butanone

Conclusion/Summary

: May cause an allergic skin reaction.

Mutagenicity

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

Eyes - Severe irritant

Eyes - Moderate irritant

Eyes - Moderate irritant

Eyes - Severe irritant

Skin - Moderate irritant

Skin - Mild irritant

Skin - Mild irritant

Skin - Mild irritant

Skin - Mild irritant

Carcinogenicity

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

Conclusion/Summary

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

Reproductive toxicity

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

Teratogenicity

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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 naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-Dimethylaminoethanol	Category 3	-	Respiratory tract irritation
acetone	Category 3	-	Narcotic effects
Propan-2-ol	Category 3	-	Narcotic effects
Butanone	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Ethanediol	Category 2	oral	-

Aspiration hazard

Product/ingredient name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: 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 : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity: No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
itanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Mummichog - Fundulus heteroclitus	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna	48 hours
	Acute LC50 800000 μg/l Marine water	Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i>	48 hours
	Acute LC50 1250000 μg/l Marine water	Fish - Inland silverside - Menidia beryllina	96 hours
Solvent naphtha (petroleum), light aromatic	Acute EC50 3.2 mg/l	Daphnia	48 hours
-	Acute LC50 9.2 mg/l	Fish	96 hours
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	EC50 91 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	LC50 42 mg/l	Fish - Cyprinus carpio	96 hours
Ethanediol	Acute LC50 6900000 µg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 41000000 μg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna - Neonate	48 hours
	Acute LC50 8050000 μg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	EC50 1.68 mg/l	Aquatic plants - Desmodesmodus subspicatus	72 hours
,	Acute LC50 0.9 mg/l	Fish - <i>Brachydanio rerio</i>	96 hours
	Chronic NOEC 1 mg/l	Daphnia - Daphnia	21 days
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Green algae - <i>Ulva</i> pertusa	96 hours
	Acute EC50 2000 μg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna	48 hours
	Acute LC50 25500 μg/l Marine water	Crustaceans - San Francisco Brine Shrimp - <i>Artemia</i> <i>franciscana</i> - Larvae	48 hours
	Acute LC50 42000 μg/l Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Green algae - <i>Ulva</i> pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Eastern mosquitofish - Gambusia holbrooki - Larvae	12 weeks
Propylene glycol	Acute EC50 19300 mg/l Fresh water	Algae - Algae	96 hours
	Acute EC50 43500 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 18340000 μg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia	48 hours
	Acute LC50 40613 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours

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propylidynetrimethanol	Acute EC50 13000000 µg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
	1	magna	
	Acute LC50 14400000 µg/l Marine	Fish - Sheepshead minnow -	96 hours
	water	Cyprinodon variegatus	
acetone	Acute EC50 20.565 mg/l Marine water	Algae - Green algae - <i>Ulva</i>	96 hours
		pertusa	
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Scud -	48 hours
		Gammarus pulex	
	Acute LC50 10000 µg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
		magna	
	Acute LC50 5600 ppm Fresh water	Fish - Guppy - <i>Poecilia reticulata</i>	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Green algae - <i>Ulva</i>	96 hours
		pertusa	
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphnia -	21 days
		Daphniidae	
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Water flea - <i>Daphnia</i>	21 days
		magna - Neonate	
	Chronic NOEC 5 µg/l Marine water	Fish - Threespine stickleback -	42 days
	1 5050 40400	Gasterosteus aculeatus - Larvae	40.1
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
	A	magna	40 1
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Common shrimp,	48 hours
	A custo I CEO 4200000 um/l Freeh uneter	sand shrimp - Crangon crangon	00 haves
	Acute LC50 4200000 µg/l Fresh water	Fish - Harlequinfish, red rasbora - <i>Rasbora</i>	96 hours
Butanone	Acute EC50 >500000 µg/l Marine water	heteromorpha Algae - Diatom - Skeletonema	96 hours
Dutanone	Acute LC30 >300000 µg/i Maille Water	costatum	30 Hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
	Thouse 2000 000 1000 µg/11 10011 Water	magna - Larvae	T-O HOUIS
	Acute LC50 3220000 µg/l Fresh water	Fish - Fathead minnow -	96 hours
	7 toda 2000 0220000 µg/11 10311 Water	Pimephales promelas	10010
		· · ·	

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary: This product has not been tested for biodegradation.

•	•	· ·	
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Propylene glycol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol	0.81	-	Low
Solvent naphtha (petroleum),	-	10 to 2500	High
light aromatic			_
Ethanediol	-1.36	-	Low
Ethanol	-0.35	-	Low
Propylene glycol	-1.07	-	Low
2-Dimethylaminoethanol	-0.55	-	Low
propylidynetrimethanol	-0.47	<1	Low
acetone	-0.23	-	Low
Propan-2-ol	0.05	-	Low
Butanone	0.3	-	Low

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

European waste catalogue (EWC) The classification of the product may meet the criteria for a hazardous waste.

: 080111*, 200127*

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. 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	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

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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14.7 Transport in bulk according to IMO instruments

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

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SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

No listed substance

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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.

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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
, -	Calculation method 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.
H314	Causes severe skin burns and eye damage.
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.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
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
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B

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SECTION 16: Other information

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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