SAFETY DATA SHEET



Crestamould 14PA Red 5393

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

1.1 Product identifier

Product name : Crestamould 14PA Red 5393
UFI : 59Y1-80FH-8004-QCJQ

Product code : G5082600

Product description : Not available.

Product type : Liquid.

Other means of : Not available.

identification

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

Identified uses

Gelcoat

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

Scott Bader Co Ltd, Wollaston. Northants NN297RL United Kingdom +44 (0)1933663100

e-mail address of person responsible for this SDS

: SDS@scottbader.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : +44 1865 407333 (NCEC) 24h

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H335

STOT RE 1, H372 (hearing organs)

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

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SECTION 2: Hazards identification

Hazard pictograms







Signal word

: Danger

Hazard statements

: H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H361d - Suspected of damaging the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure.

(hearing organs)

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

: Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

: Store in a well-ventilated place. Keep container tightly closed.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label

elements

: Contains isocyanates. May produce an allergic reaction.

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

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

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

: This mixture 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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
styrene	REACH #: 01-2119457861-32 EC: 202-851-5 CAS: 100-42-5 Index: 601-026-00-0	≥25 - ≤50	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Silica, amorphous, fumed, cryst free	REACH #: 01-2119379499-16 CAS: 112945-52-5	≤3	Not classified.	[2]
diiron trioxide	EC: 215-168-2 CAS: 1309-37-1	≤3	Not classified.	[2]
cobalt bis(2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7	<0.3	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360F Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1] [2]
N,N-dimethylaniline	REACH #: 01-2119950342-44 EC: 204-493-5 CAS: 121-69-7 Index: 612-016-00-0	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Carc. 2, H351 Aquatic Chronic 2, H411	[1] [2]
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤0.1	Not classified.	[2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤0.1	Not classified.	[2]
1,2,4-trimethylbenzene	EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≤0.1	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤0.1	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
dibutyltin dilaurate	EC: 201-039-8 CAS: 77-58-7	≤0.1	Muta. 2, H341 Repr. 1B, H360 STOT RE 1, H372 (immune system)	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
2,6-di-tert-butyl-p-cresol	REACH #:	<0.1	Aquatic Acute 1, H400	[1] [2]

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SECTION 3: Composition/information on ingredients

ocorron 5. composition	g.	- Caronito		
	01-2119565113-46 EC: 204-881-4 CAS: 128-37-0		(M=1) Aquatic Chronic 1, H410 (M=1)	
2,2' -oxybisethanol	REACH #: 01-2119457857-21 EC: 203-872-2 CAS: 111-46-6 Index: 603-140-00-6	≤0.1	Acute Tox. 4, H302	[1] [2]
(2-methoxymethylethoxy)propanol	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤0.1	Not classified.	[2]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071	[1] [2]
1,4-dihydroxybenzene	REACH #: 01-2119524016-51 EC: 204-617-8 CAS: 123-31-9 Index: 604-005-00-4	<0.01	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1B, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1] [2]
Isocyanic acid, polymethylenepolyphenylene ester	CAS: 9016-87-9	≤0.1	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 (inhalation) STOT SE 3, H335 STOT RE 2, H373 (inhalation)	[1] [2]
aluminium oxide	EC: 215-691-6 CAS: 1344-28-1	≤0.1	Not classified.	[2]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]
phenol	EC: 203-632-7 CAS: 108-95-2 Index: 604-001-00-2	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT RE 2, H373	[1] [2]
	recent which within the curren		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.

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SECTION 3: Composition/information on ingredients

- [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

: 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.

Inhalation

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. Get medical attention. If necessary, call a poison center or physician. 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. 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 or irritation watering redness

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact

: Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion

: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

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SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specia

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO2, 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 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

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. 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".

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 (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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

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

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
styrene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 250 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 430 mg/m³ 8 hours. STEL: 1080 mg/m³ 15 minutes.
Cilian amanumbassa fumand amust funa	
Silica, amorphous, fumed, crystfree	EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica, amorphous]
	TWA: 2.4 mg/m³ 8 hours. Form: respirable dust
	TWA: 6 mg/m³ 8 hours. Form: inhalable dust
diiron trioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020). [Iron oxide]
	STEL: 10 mg/m³, (as Fe) 15 minutes. Form: Fume
	TWA: 5 mg/m³, (as Fe) 8 hours. Form: Fume
	EH40/2005 WELs (United Kingdom (UK), 1/2020). [rouge]
	TWA: 4 mg/m³ 8 hours. Form: respirable
	TWA: 10 mg/m³ 8 hours. Form: total inhalable
cobalt bis(2-ethylhexanoate)	EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and
	cobalt compounds] Inhalation sensitiser.
	TWA: 0.1 mg/m³, (as Co) 8 hours.
N,N-dimethylaniline	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 50 mg/m³ 15 minutes. STEL: 10 ppm 15 minutes.
	TWA: 5 ppm 8 hours.
	TWA: 25 mg/m ³ 8 hours.
propane-1,2-diol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
F F	TWA: 10 mg/m ³ 8 hours. Form: Particulate
	TWA: 474 mg/m ³ 8 hours. Form: total vapour and particulates
	TWA: 150 ppm 8 hours. Form: total vapour and particulates
titanium dioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 4 mg/m³ 8 hours. Form: respirable
	TWA: 10 mg/m³ 8 hours. Form: total inhalable
1,2,4-trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	[trimethylbenzenes, all isomers or mixtures]
	TWA: 25 ppm 8 hours. TWA: 125 mg/m³ 8 hours.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
т-тетпоху-2-ргорапог	through skin.
	STEL: 560 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
dibutyltin dilaurate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [tin
	compounds, organic, except cyhexatin (ISO)] Absorbed
	through skin.
	STEL: 0.2 mg/m³, (as Sn) 15 minutes.
10 (1)	TWA: 0.1 mg/m³, (as Sn) 8 hours.
2-methylpropan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 231 mg/m³ 15 minutes.
	STEL: 75 ppm 15 minutes. TWA: 154 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
2,6-di-tert-butyl-p-cresol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
2,0 a. tort bary, p 0,000	TWA: 10 mg/m ³ 8 hours.
2,2' -oxybisethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
· •	TWA: 101 mg/m ³ 8 hours.
	TWA: 23 ppm 8 hours.

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through skin. TWA: 308 mg/m³ 8 hours. TWA: 50 ppm 8 hours. maleic anhydride EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitiser. STEL: 3 mg/m³ 15 minutes. TWA: 1 mg/m³ 8 hours. 1,4-dihydroxybenzene EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 0.5 mg/m³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, Isocyanic acid, polymethylenepolyphenylene all, except methyl isocyanate] Inhalation sensitiser. ester STEL: 0.07 mg/m³, (as -NCO) 15 minutes. TWA: 0.02 mg/m³, (as -NCO) 8 hours. aluminium oxide EH40/2005 WELs (United Kingdom (UK), 1/2020). [aluminium] oxidesl TWA: 4 mg/m³ 8 hours. Form: respirable dust TWA: 10 mg/m³ 8 hours. Form: inhalable dust toluene EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 384 mg/m³ 15 minutes. TWA: 191 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. phenol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. TWA: 2 ppm 8 hours. STEL: 16 mg/m³ 15 minutes. STEL: 4 ppm 15 minutes.

Biological exposure indices

No exposure indices known.

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.

TWA: 7.8 mg/m³ 8 hours.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
styrene	DNEL	Short term Inhalation	289 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	306 mg/m ³	Workers	Local
	DNEL	Long term Dermal	406 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	85 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	174.25 mg/ m³	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	182.75 mg/ m³	General population [Consumers]	Local
	DNEL	Long term Dermal	343 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	10.2 mg/m³		Systemic
	DNEL	Long term Oral	2.1 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	7.7 µg/kg	General	Systemic

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			bw/day	population	
	DNEL	Long term	1 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	1 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Short term	10 mg/m³	General	Local
		Inhalation	_	population	
	DNEL	Short term	10 mg/m³	General	Systemic
		Inhalation	Ü	population	,
	DNEL	Long term	85 mg/m³	Workers	Systemic
		Inhalation	5 5 111 3 /111		- ,
	DNEL	Short term	100 mg/m³	Workers	Local
	D.11	Inhalation	100 mg/m	TT GITTOIG	20041
	DNEL	Long term	100 mg/m ³	Workers	Local
	D.11	Inhalation	roo mg/m	VVOINGIG	Local
	DNEL	Short term	100 mg/m ³	Workers	Systemic
	DIVLL	Inhalation	100 mg/m	VVOIRCIS	Cystoffic
	DNEL	Long term Dermal	343 mg/kg	General	Systemic
	DINEL	Long term Dermai	bw/day	population	Systemic
	DNE	Langtorm Dormal			Customia
	DNEL	Long term Dermal	406 mg/kg	Workers	Systemic
	DAIEI	1	bw/day	0	1 1
cobalt bis(2-ethylhexanoate)	DNEL	Long term	37 µg/m³	General	Local
	5. IEI	Inhalation		population	
	DNEL	Long term Oral	175 µg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	235.1 μg/	Workers	Local
		Inhalation	m³		
N,N-dimethylaniline	DNEL	Long term	0.27217391	General	Systemic
		Inhalation	mg/m³	population	
	DNEL	Long term Dermal	0.313 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.626 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term Oral	0.62913	General	Systemic
			mg/kg bw/	population	
			day		
	DNEL	Long term	1.1037368	Workers	Systemic
		Inhalation	mg/m³		
propane-1,2-diol	DNEL	Long term Dermal	213 mg/kg	General	Systemic
		-	bw/day	population	
			j	[Consumers]	
	DNEL	Long term	50 mg/m ³	General	Systemic
		Inhalation	Ğ	population	
				[Consumers]	
	DNEL	Long term Oral	85 mg/kg	General	Systemic
	- 	J 3.4	bw/day	population	,
			,	[Consumers]	
	DNEL	Long term	10 mg/m³	General	Local
	D.11	Inhalation	10 1119/111	population	Local
		minadon		[Consumers]	
	DNEL	Long term	10 mg/m³	General	Local
	DINCL	Inhalation	ro mg/m	population	LUCAI
	DNEL		10 mg/m³	Workers	Local
	DINEL	Long term Inhalation	10 mg/m³	4 4 OLUG19	Local
	DNEL		50 mg/m ³	General	Cyctomic
	DINEL	Long term	50 mg/m ³		Systemic
	ראבי	Inhalation	160 mm/==3	population	Systemis
	DNEL	Long term	168 mg/m³	Workers	Systemic
1.2.4 tripp of by the server	ראורי	Inhalation	15 pa = //	Conord	Cyatamia
1,2,4-trimethylbenzene	DNEL	Long term Oral	15 mg/kg	General	Systemic
	ם אירי	Ob 4 4	bw/day	population	Land
	DNEL	Short term	29.4 mg/m ³	General	Local
	ראורי	Inhalation	20.4 / 3	population	Local
	DNEL	Long term	29.4 mg/m ³	General	Local
		Inhalation		population	
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•	•	• -			
	DNEL	Short term	29.4 mg/m ³		Systemic
		Inhalation		population	
	DNEL	Long term	29.4 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	100 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	100 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	100 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term	100 mg/m ³	Workers	Systemic
		Inhalation	-		
	DNEL	Long term Dermal	9512 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	16171 mg/	Workers	Systemic
			kg bw/day		
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	43.9 mg/m ³	General	Systemic
		Inhalation	Ğ	population	
	DNEL	Long term Dermal	78 mg/kg	General	Systemic
			bw/day	population	-
	DNEL	Long term Dermal	183 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	369 mg/m ³	Workers	Systemic
		Inhalation	,	· · -	
	DNEL	Short term	553.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	553.5 mg/	Workers	Systemic
		Inhalation	m³		
dibutyltin dilaurate	DNEL	Long term Oral	0.0031 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	0.0046 mg/	General	Systemic
		Inhalation	m ³	population	
	DNEL	Short term Oral	0.02 mg/	General	Systemic
	D. 122	Short tonni Gran	kg bw/day	population	Cycloniic
	DNEL	Long term	0.02 mg/m ³		Systemic
	D. 122	Inhalation	0.02g/	TT GIRGIG	Cycloniic
	DNEL	Short term	0.04 mg/m ³	General	Systemic
	D. 122	Inhalation	0.0g,	population	Cycloniic
	DNEL	Short term	0.059 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Long term Dermal	0.16 mg/	General	Systemic
	,		kg bw/day	population	- ,
	DNEL	Long term Dermal	0.43 mg/	Workers	Systemic
			kg bw/day	· = : : : 	,
	DNEL	Short term Dermal	0.5 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Short term Dermal	2.08 mg/	Workers	Systemic
		Short torring Dorring	kg bw/day		- , 5.5.7.110
2-methylpropan-1-ol	DNEL	Long term	55 mg/m ³	General	Local
	,	Inhalation	20g, 111	population	
				[Consumers]	
	DNEL	Long term Oral	25 mg/kg	General	Local
		Long tonin Oral	_0g/Ng	population	
				[Consumers]	
	DNEL	Long term	55 mg/m³	General	Local
	DINCE	Inhalation	Jo mg/m	population	20001
	DNEL	Long term	310 mg/m ³	Workers	Local
	DINEL	Inhalation	5 to mg/m	VVOINGIS	Local
2.6 di tort butul n orosal	DNE		2 5 ma/ka	Morkoro	Systemis
2,6-di-tert-butyl-p-cresol	DNEL	Long term	3.5 mg/kg	Workers	Systemic
	DNE	Inhalation	bw/day	Coporal	Systemis
	DNEL	Long term Oral	0.25 mg/	General	Systemic
			kg bw/day	population	
i	ı	1			· !

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•	•	•			
	DNEL	Long term Dermal	0.25 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	0.435 mg/	General	Systemic
	DIVLE	Inhalation	m ³	population	Cystonio
	DAILL				0
	DNEL	Long term Dermal	0.5 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	1.76 mg/m ³	Workers	Systemic
		Inhalation	J		,
2,2' -oxybisethanol	DNEL	Long term	12 mg/m³	General	Local
Z,Z -OXYDISEITIATIOI	DINEL		12 1119/111		Lucai
		Inhalation		population	
	DNEL	Long term	12 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	21 mg/kg	General	Systemic
		9	bw/day	population	- ,
	חארו	Long torm Dormal	•		Cyatamia
	DNEL	Long term Dermal	43 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	44 mg/m ³	Workers	Systemic
		Inhalation	Ü		•
	DNEL	Long term	60 mg/m³	Workers	Local
	DIVLL		oo mg/m	WOINGIS	Local
	·	Inhalation			
(2-methoxymethylethoxy)propanol	DNEL	Long term Oral	36 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	37.2 mg/m ³	General	Systemic
		Inhalation		population	,
	DNEL	Long term Dermal	121 mg/kg	General	Systemic
	DINEL	Long term Dermai			Systernic
			bw/day	population	
	DNEL	Long term Dermal	283 mg/kg	Workers	Systemic
			bw/day		•
	DNEL	Long term	308 mg/m ³	Workers	Systemic
	DIVLE	Inhalation	ooo mg/m	WOINGIS	Cystonio
	D. 151		0.04	147	
maleic anhydride	DNEL	Short term Dermal	0.04 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Short term Dermal	0.04 mg/	Workers	Local
	- 1 1 - 1		cm ²		2000
	DNEL	Long torm Dormal		Morkoro	Cyatamia
	DINEL	Long term Dermal	0.04 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term Dermal	0.04 mg/	Workers	Local
			cm²		
	DNEL	Long term	0.4 mg/m³	Workers	Systemic
	DIVLE	Inhalation	o.+ mg/m	WOINGIS	Cystonio
	D. 151		0.4 / 2	147	l l
	DNEL	Long term	0.4 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	0.05 mg/m ³	General	Systemic
		Inhalation		population	1
	DNEL	Long term Oral	0.06 mg/	General	Systemic
	DIVEL	Long term Oral			Systernic
		ļ. ,	kg bw/day	population	
	DNEL	Long term	0.08 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	0.081 mg/	Workers	Local
		Inhalation	m ³	·	
	ראובי			\\/orke==	Cuatonsia
	DNEL	Long term	0.081 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Short term Oral	0.1 mg/kg	General	Systemic
			bw/day	population	·
	DNEL	Short term Dermal	0.1 mg/kg	General	Systemic
	D. T.L.	Chort tolli Dollilai	bw/day	population	2,010.1110
	האיבי				0
	DNEL	Long term Dermal	0.1 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	0.2 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term Dermal	0.2 mg/kg	Workers	Systemic
	DIVEL	Long term Demial		AAOIVEI2	Systernic
			bw/day		[
	DNEL	Short term	0.2 mg/m³	Workers	Local
		Inhalation			

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•	<u> </u>	<u> </u>			1 - '
	DNEL	Short term	0.2 mg/m ³	Workers	Systemic
4 4 dileceles on because	חאבו	Inhalation	0.4 //	0	0
1,4-dihydroxybenzene	DNEL	Long term Dermal	64 mg/kg	General	Systemic
			bw/day	population	
				[Human via the	
				environment]	
	DNEL	Long term	1.74 mg/m ³		Systemic
		Inhalation		population	
				[Human via the	
				environment]	
	DNEL	Long term	0.5 mg/m³	General	Local
		Inhalation		population	
				[Human via the	
				environment]	
	DNEL	Long term Oral	0.6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	1.05 mg/m ³	General	Systemic
		Inhalation	J	population	*
	DNEL	Long term Dermal	1.66 mg/	General	Systemic
		3	kg bw/day	population	'
	DNEL	Long term	2.1 mg/m ³	Workers	Systemic
	-	Inhalation	g,		,
	DNEL	Long term Dermal	3.33 mg/	Workers	Systemic
	- · •		kg bw/day		- , 5.5.1110
aluminium oxide	DNEL	Long term	0.75 mg/m ³	General	Local
	- · •	Inhalation	3 3g/iii	population	
	DNEL	Long term	0.75 mg/m ³		Systemic
	DIVLE	Inhalation	o.ro mg/m	population	Cycloniio
	DNEL	Long term Oral	1.32 mg/	General	Systemic
	DIVLE	Long tomi oral	kg bw/day	population	Cycloniio
	DNEL	Long term	3 mg/m ³	Workers	Local
	DIVLL	Inhalation	o mg/m	WOIKOIS	Local
	DNEL	Long term	3 mg/m³	Workers	Systemic
	DINLL	Inhalation	o mg/m	WORKEIS	Cysternic
toluene	DNEL	Short term	226 mg/m ³	General	Systemic
tolderic	DINLL	Inhalation	220 mg/m	population	Cysternic
		IIIIIalation		[Consumers]	
	DNEL	Short term	226 mg/m ³	General	Local
	DINLL	Inhalation	220 mg/m	population	Local
		IIIIIalation		[Consumers]	
	DNEL	Long term Dermal	226 mg/kg	General	Systemic
	DINLL	Long term Dermai	bw/day	population	Gysternic
			bw/uay		
	DNEL	Long torm	56.5 mg/m ³	[Consumers] General	Systemia
	DINCL	Long term Inhalation	Jo.5 mg/m		Systemic
		IIIIIalauuII		population	
	ראבי	Long torm Oral	0 12	[Consumers]	Systemia
	DNEL	Long term Oral	8.13 mg/	General	Systemic
			kg bw/day	population	
	ראבי	Long to	EG E / 3	[Consumers]	
	DNEL	Long term	56.5 mg/m ³		Local
		Inhalation		population	
	ראיבי		0.40/	[Consumers]	Cuatawa:
	DNEL	Long term Oral	8.13 mg/	General	Systemic
	ריי	1 4	kg bw/day	population	1 1
	DNEL	Long term	56.5 mg/m ³		Local
	ריי	Inhalation	FO F / 3	population	0
	DNEL	Long term	56.5 mg/m ³		Systemic
	D	Inhalation	400 ' ^	population	
	DNEL	Long term	192 mg/m ³	Workers	Local
	D	Inhalation	100 ' -		
	DNEL	Long term	192 mg/m ³	Workers	Systemic
	D	Inhalation	000 "		0
	DNEL	Long term Dermal	226 mg/kg	General	Systemic
			bw/day	population	
ı	1	ı		1	ı l

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	DNEL	Short term	226 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	226 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
phenol	DNEL	Long term	0.452 mg/	General	Systemic
		Inhalation	m³	population	-
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.23 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	8 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	16 mg/m³	Workers	Local

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
styrene	Fresh water	0.028 mg/l	-
•	Marine water	0.0028 mg/l	-
	Fresh water sediment	0.614 mg/kg dwt	-
	Marine water sediment	0.0614 mg/kg dwt	-
	Soil	0.2 mg/kg dwt	-
	Sewage Treatment	5 mg/l	-
	Plant		
propane-1,2-diol	Fresh water	260 mg/l	-
•	Marine water	26 mg/l	-
	Sewage Treatment	20000 mg/l	_
	Plant		
	Fresh water sediment	572 mg/kg	_
	Marine water sediment	57.2 mg/kg	_
	Soil	50 mg/kg	_
titanium dioxide	Fresh water	0.127 mg/l	_
	Marine water	≥1 mg/l	_
	Fresh water sediment	≥1000 mg/l	_
	Marine water sediment	≥100 mg/l	_
	Soil	100 mg/l	_
	Sewage Treatment	≥100 mg/l	_
	Plant		
2-methylpropan-1-ol	Fresh water	0.4 mg/l	_
	Marine water	0.04 mg/l	_
	Fresh water sediment	1.52 mg/kg	_
	Marine water sediment	0.152 mg/kg	_
	Soil	0.0699 mg/kg	_
	Sewage Treatment	10 mg/l	_
	Plant		
2,6-di-tert-butyl-p-cresol	Fresh water	0.199 µg/l	_
_,•, -	Marine water	0.0199 µg/l	_
	Sediment	99.6 µg/l	_
	Soil	47.69 μg/l	_
maleic anhydride	Fresh water	0.04281 mg/l	_
a.o.o a.myanao	Marine water	0.004281 mg/l	_
	Fresh water sediment	0.334 mg/kg dwt	_
	Marine water sediment	0.0334 mg/kg dwt	_
	Soil	0.0415 mg/kg dwt	_
	Sewage Treatment	44.6 mg/l	_
	Journage Treatment	1. 7.0 1119/1	

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	Plant		
1,4-dihydroxybenzene	Fresh water	0.114 µg/l	-
	Marine water	0.0114 µg/l	-
	Fresh water sediment	0.00098 mg/kg	-
	Marine water sediment	0.000097 mg/kg	-
	Soil	0.000129 mg/kg	-
	Sewage Treatment	0.71 mg/l	-
	Plant	_	
toluene	Fresh water	0.68 mg/l	-
	Marine water	0.68 mg/l	-
	Fresh water sediment	16.39 mg/kg dwt	-
	Marine water sediment	16.39 mg/kg dwt	-
	Sewage Treatment	13.61 mg/l	-
	Plant		
	Soil	2.89 mg/kg dwt	

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying 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.

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.

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.

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.

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 : Red. **Odour** : Solvent Not available. **Odour threshold** : Not available. Melting point/freezing point Initial boiling point and : Not available.

boiling range

Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available.

explosive limits

Flash point

: Closed cup: 32°C (89.6°F)

: Not available. **Auto-ignition temperature** : Not available. **Decomposition temperature** pН : Not applicable.

Viscosity Kinematic (40°C): >40 mm²/s

Solubility in water : Not available. Partition coefficient: n-octanol/: Not applicable.

water

Vapour pressure : Not available. **Relative density** 1.1 to 1.2 : Not available. Vapour density : Not available. **Explosive properties** : Not available. **Oxidising properties**

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.

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.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
styrene	LC50 Inhalation Gas.	Rat	2770 ppm	4 hours
	LC50 Inhalation Vapour	Rat	11800 mg/m ³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	2650 mg/kg	-
Silica, amorphous, fumed, crystfree	LD50 Dermal	Rabbit	≥2000 mg/kg	-
oryst. Hee	LD50 Oral	Rat	≥5000 mg/kg	_
cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	_
	LD50 Oral	Rat	>2000 mg/kg	_
N,N-dimethylaniline	LC50 Inhalation Vapour	Rat	>5.1 mg/l	4 hours
	LD50 Dermal	Rabbit	1700 mg/kg	-
	LD50 Oral	Rat	1120 mg/kg	_
propane-1,2-diol	LD50 Dermal	Rabbit	20800 mg/kg	_
7,2 4101	LD50 Oral	Rat	20 g/kg	_
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.8 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>5000 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapour	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
2-methylpropan-1-ol	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
2,6-di-tert-butyl-p-cresol	LD50 Oral	Rat	890 mg/kg	-
2,2' -oxybisethanol	LD50 Dermal	Rabbit	11890 mg/kg	-
	LD50 Oral	Rat	12000 mg/kg	-
maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
1,4-dihydroxybenzene	LD50 Oral	Rat	375 mg/kg	-
Isocyanic acid,	LC50 Inhalation Dusts and	Rat	1.5 mg/l	4 hours
polymethylenepolyphenylene ester	mists			
	LD50 Dermal	Rabbit	>9400 mg/kg	_
	LD50 Oral	Rat	49 g/kg	_
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	_
phenol	LD50 Dermal	Rabbit	630 mg/kg	_
	LD50 Dermal	Rat	669 mg/kg	_
	LD50 Oral	Rat	317 mg/kg	_
			פייישייי יי־בּ	

Conclusion/Summary

: Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Crestamould 14PA Red 5393	N/A	N/A	6830.7	29.1	N/A
styrene	2650	N/A	2770	11.8	N/A
N,N-dimethylaniline	100	300	N/A	3	N/A
propane-1,2-diol	20000	20800	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A
2-methylpropan-1-ol	2460	3400	N/A	N/A	N/A
2,2' -oxybisethanol	500	11890	N/A	N/A	N/A
maleic anhydride	400	2620	N/A	N/A	N/A
1,4-dihydroxybenzene	375	N/A	N/A	N/A	N/A
Isocyanic acid, polymethylenepolyphenylene ester	49000	N/A	N/A	N/A	1.5

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SECTION 11: Toxicological information

toluene	N/A	N/A	N/A	49	N/A
phenol	100	630	N/A	3	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
styrene	Eyes - Mild irritant	Human	-	50 ppm	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
1-methoxy-2-propanol	Skin - Mild irritant	Rabbit	-	500 mg	-
dibutyltin dilaurate	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Severe irritant	Rabbit	-	500 mg	-
2,6-di-tert-butyl-p-cresol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Mild irritant	Human	-	48 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	48 hours 500	-
				mg	
2,2' -oxybisethanol	Eyes - Mild irritant	Rabbit	-	50 mg	-
	Skin - Mild irritant	Human	-	72 hours 112	-
				mg I	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Isocyanic acid,	Eyes - Mild irritant	Rabbit	-	100 mg	-
polymethylenepolyphenylene					
ester					
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Skin - Mild irritant	Pig	-	24 hours 250	-
				uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
phenol	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				5 mg	
	Eyes - Severe irritant	Rabbit	-	5 mg	-
	Skin - Mild irritant	Rabbit	-	100 mg	-
	Skin - Severe irritant	Pig	-	0.5 minutes	-
			1	400 uL	
	Skin - Severe irritant	Rabbit		535 mg	

Conclusion/Summary

: Not available.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
1,4-dihydroxybenzene	skin	Guinea pig	Not sensitizing
	skin	Mouse	Sensitising

Conclusion/Summary

: Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
1,4-dihydroxybenzene	-	Experiment: In vivo Subject: Mammalian-Animal Experiment: In vivo Subject: Bacteria	Positive Negative

Conclusion/Summary: Not available.

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SECTION 11: Toxicological information

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
styrene	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Isocyanic acid, polymethylenepolyphenylene ester	Category 3	-	Respiratory tract irritation
toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
styrene dibutyltin dilaurate maleic anhydride Isocyanic acid, polymethylenepolyphenylene ester toluene phenol	0 ,	- inhalation inhalation - -	hearing organs immune system respiratory system - -

Aspiration hazard

Product/ingredient name	Result
styrene	ASPIRATION HAZARD - Category 1
1,2,4-trimethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on likely routes : N

of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled. May cause respiratory irritation.

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

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced foetal weight increase in foetal deaths skeletal malformations

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SECTION 11: Toxicological information

Skin contact: Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

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 : No

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
styrene	Chronic NOAEL Dermal Chronic NOAEL Inhalation	Rat Rat	615 mg/kg 20 ppm	- 8 hours
1,4-dihydroxybenzene	Gas. Sub-chronic NOAEL Dermal Sub-chronic NOAEL Oral	Rat Rat	>73.9 mg/kg 20 mg/kg	90 days 90 days

Conclusion/Summary

General

: Not available.

: Causes damage to organs through prolonged or repeated exposure. Once

sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : Suspected of damaging the unborn child.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
styrene	Acute EC50 4.9 mg/l	Algae	72 hours
	Acute EC50 78000 μg/l Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	Acute EC50 4700 μg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 52 mg/l Marine water	Crustaceans - Brine shrimp - Artemia salina	48 hours
	Acute LC50 4020 μg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Chronic NOEC 1.01 mg/l	Daphnia	21 days
Silica, amorphous, fumed, crystfree	Acute LC50 >10000 mg/l	Fish - Brachydanio rerio	96 hours
N,N-dimethylaniline	Acute EC50 5 mg/l	Daphnia - Water flea - Daphnia magna	48 hours
	Acute IC50 340 mg/l	Algae - Desmodesmus subspicatus	96 hours

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	Acute LC50 65.6 mg/l	Fish Dimonholos propoles	96 hours
propane-1,2-diol	Acute EC50 65.6 mg/l	Fish - Pimephales promelas	72 hours
proparie-1,2-dioi	Acute EC50 24200 flig/l	Algae Daphnia	48 hours
	Acute LC50 1020000 µg/l Fresh water	Crustaceans - Water flea -	48 hours
	Acute 2000 1020000 µg/11 Testi Water	Ceriodaphnia dubia	40 110013
	Acute LC50 710000 μg/l Fresh water	Fish - Fathead minnow -	96 hours
	Acute 2000 / 10000 µg/11 Testi water	Pimephales promelas	30 Hours
	Chronic NOEC 13020 mg/l	Daphnia	7 days
titanium dioxide	Acute EC50 27.8 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
titaliiaiii aloxiao	Tribute 2000 27:0 mg/11 room water	magna	10 Hours
	Acute LC50 15.9 mg/l Fresh water	Crustaceans - Water flea -	48 hours
	, toute 2000 Tole High Freeh Water	Ceriodaphnia dubia - Neonate	10 110410
	Acute LC50 >1000 mg/l	Fish - Pimephales promelas	96 hours
1,2,4-trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Scud -	48 hours
, ,		Elasmopus pectenicrus - Adult	
	Acute LC50 7720 μg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	
dibutyltin dilaurate	Chronic EC10 >2 mg/l Fresh water	Algae - Green algae -	96 hours
		Desmodesmus subspicatus	
2-methylpropan-1-ol	Acute LC50 600 mg/l Marine water	Crustaceans - Brine shrimp -	48 hours
		Artemia salina	
	Acute LC50 1030000 µg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna - Neonate	
	Acute LC50 1330000 µg/l Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
	Chronic NOEC 20 mg/l Fresh water	Daphnia - Water flea - Daphnia	21 days
		magna	
2,6-di-tert-butyl-p-cresol	Acute EC50 1440 µg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		pulex - Neonate	
2,2' -oxybisethanol	Acute LC50 75200000 µg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	
maleic anhydride	Acute LC50 230 ppm Fresh water	Fish - Western mosquitofish -	96 hours
4 4 19 1	A 1 5050 0 101 "	Gambusia affinis - Adult	40.1
1,4-dihydroxybenzene	Acute EC50 0.134 mg/l	Daphnia	48 hours
	Acute LC50 0.06 mg/l Fresh water	Fish - Fathead minnow -	96 hours
	01 . 5050 0 00 #	Pimephales promelas - Larvae	70.1
	Chronic EC50 0.33 mg/l	Aquatic plants	72 hours
	Chronic NOEC 0.019 mg/l Chronic NOEC 0.0057 mg/l	Aquatic plants	72 hours
loo avania asid	1	Daphnia	21 days
Isocyanic acid, polymethylenepolyphenylene	Acute EC50 >1640 mg/l	Algae - scenedesmus	72 hours
ester		subspicatus	
ester	Acute LC50 >1000 mg/l	Fish - Danio rerio	96 hours
	Chronic NOEC >10 mg/l	Daphnia - Daphnia magna	21 days
aluminium oxide	Acute EC50 114.357 mg/l Fresh water	Daphnia - Daphnia magna Daphnia - Water flea - Daphnia	48 hours
alaminam oxido	/ todio 2000 114.007 mg/11 lean water	magna - Neonate	TO HOURS
toluene	Acute EC50 >433 ppm Marine water	Algae - Diatom - Skeletonema	96 hours
	, tosto 2000 - 400 ppin Marino water	costatum	Jo Hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Scud -	48 hours
	grant 2000 in the contraction	Gammarus pseudolimnaeus -	.555
		Adult	
	Acute EC50 6000 μg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna - Juvenile (Fledgling,	
		Hatchling, Weanling)	
	Acute LC50 5500 μg/l Fresh water	Fish - Coho salmon,silver	96 hours
	. 5	salmon - Oncorhynchus kisutch	
		- Fry	
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Water flea - Daphnia	21 days
		magna	
phenol	Acute EC50 29.316 mg/l Marine water	Algae - Green algae - Ulva	96 hours
		pertusa	
	Chronic NOEC 16 µg/l Marine water	Algae - Neptune's Necklace -	72 hours
		Hormosira banksii - Gamete	
	Chronic NOEC 1.5 mg/l Fresh water	Daphnia - Water flea - Daphnia	21 days
I	I	1	1

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9		30 days
	Notopterus notopterus	

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
propane-1,2-diol	OECD 306 Biodegradability in Seawater	90.6 % - 64 days	-	-
	OECD 301F Ready Biodegradability - Manometric Respirometry Test	81.07 % - 28 days	-	-
1,4-dihydroxybenzene Isocyanic acid, polymethylenepolyphenylene ester	- OECD 301C Ready Biodegradability - Modified MITI Test (I)	70 % - Readily - 14 days 0 % - 28 days	-	-

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
styrene cobalt bis(2-ethylhexanoate) propane-1,2-diol 1,4-dihydroxybenzene Isocyanic acid, polymethylenepolyphenylene	- - - -	- - - -	Readily Not readily Readily Readily Not readily
ester toluene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
styrene	0.35	13.49	low
cobalt bis(2-ethylhexanoate)	-	15600	high
N,N-dimethylaniline	1.171	16	low
propane-1,2-diol	-1.07	-	low
1,2,4-trimethylbenzene	3.63	243	low
1-methoxy-2-propanol	<1	-	low
dibutyltin dilaurate	4.44	2.91	low
2-methylpropan-1-ol	1	-	low
2,6-di-tert-butyl-p-cresol	5.1	330 to 1800	high
2,2' -oxybisethanol	-1.98	100	low
(2-methoxymethylethoxy)	0.004	-	low
propanol			l.
maleic anhydride	-2.78	-	low
1,4-dihydroxybenzene	0.59	3.162	low
toluene	2.73	90	low
phenol	1.47	647	high

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

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SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

Packaging

Methods of disposal

: The classification of the product may meet the criteria for a hazardous waste.

: 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	UN1866	UN1866	UN1866	UN1866
14.2 UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION	Resin solution
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID

: Hazard identification number 30

Limited quantity 5 L Special provisions 640E Tunnel code (D/E)

ADN

: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

Special provisions 640E

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SECTION 14: Transport information

IMDG

Emergency schedules F-E, S-E

Special provisions 223, 955

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities -

Passenger Aircraft: 10 L. Packaging instructions: Y344.

Special provisions A3

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.

14.7 Transport in bulk according to IMO instruments

: Not available.

: Not applicable.

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

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P₅c

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
cobalt bis(2-ethylhexanoate)	UK Occupational Exposure Limits EH40 - WEL	cobalt and cobalt compounds as Co	Carc.	-

EU regulations

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SECTION 15: Regulatory information

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.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

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

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

No. 720 and amendments

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

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

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

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 1, H372 (hearing organs)	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

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SECTION 16: Other information

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic 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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H360F	May damage fertility.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
EUH071	Corrosive to the respiratory tract.

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 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	
Muta. 2 GERM CELL MUTAGENICITY - Category 2	
Repr. 1B REPRODUCTIVE TOXICITY - Category 1B	
Repr. 2 REPRODUCTIVE TOXICITY - Category 2	
Resp. Sens. 1 RESPIRATORY SENSITISATION - Category 1	
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	
STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1	
STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	
STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	

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SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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