

SAFETY DATA SHEET

Quantum Tyre Dressing

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

1.1. Product identifier

Product name	Quantum Tyre Dressing
Product number	ZGBTYREDRES05L
Internal identification	B20945, 30055

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

Identified uses	Car maintenance product. Tyre Dressing
Uses advised against	This product is not recommended for any industrial, professional or consumer use other than the identified uses stated above.

1.3. Details of the supplier of the safety data sheet

Supplier	Volkswagen Group United Kingdom Ltd Yeomans Drive Blakelands Milton Keynes
	MK14 5AN 01908 601601

1.4. Emergency telephone number

Emergency telephone	Tel: +44 1604 701111 (Office Hours Monday - Friday (0900 Hrs - 1700 Hrs))
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Asp. Tox. 1 - H304
Environmental hazards	Not Classified

Human health	The product contains small amounts of organic solvents. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Environmental	The product is not expected to be hazardous to the environment.
Physicochemical	When handled correctly, undamaged units represent no danger. Not considered to be a significant hazard due to the small quantities used.

2.2. Label elements

Pictogram



Signal word	Danger
Hazard statements	H304 May be fatal if swallowed and enters airways.

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Precautionary statements P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P331 Do NOT induce vomiting.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.
 P102 Keep out of reach of children.

Supplemental label information RCH002b For professional users only.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DIMETHICONE			10-30%
CAS number: 63148-62-9			
Classification			
Not Classified			
HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS			10-30%
CAS number: —	EC number: 927-285-2	REACH registration number: 01-2119480162-45-XXXX	
Classification			
Asp. Tox. 1 - H304			
PROPYLENE GLYCOL			<1%
CAS number: 57-55-6	EC number: 200-338-0	REACH registration number: 01-2119456809-23-XXXX	
Classification			
Not Classified			
BENZALDEHYDE			<1%
CAS number: 100-52-7	EC number: 202-860-4	REACH registration number: 01-2119455540-44-XXXX	
Classification			
Acute Tox. 4 - H302			
Acute Tox. 4 - H332			
Eye Irrit. 2 - H319			
STOT SE 3 - H335			

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SODIUM HYDROXIDE		<1%
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27-XXXX
Classification		
Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318		
ETHYL ACETATE		<1%
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-2119475103-46-XXXX
Classification		
Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
Heliotropine		<1%
CAS number: 120-57-0	EC number: 204-409-7	
Classification		
Skin Sens. 1B - H317		
ACRYLIC ACID		<1%
CAS number: 79-10-7	EC number: 201-177-9	REACH registration number: 01-2119452449-31-XXXX
M factor (Acute) = 1		
Classification		
Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400		
UNDECA-1,4-LACTONE		<1%
CAS number: 104-67-6	EC number: 203-225-4	
Classification		
Aquatic Chronic 3 - H412		

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Ethyl methylphenylglycidate	<1%
CAS number: 77-83-8	EC number: 201-061-8
Classification	
Skin Sens. 1B - H317	
Aquatic Chronic 2 - H411	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Inhalation	Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Give plenty of water to drink. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	Always assume aspiration may have occurred. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. May give rise to nausea, vomiting, central nervous system depression.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

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Specific hazards	Toxic gases or vapours. No unusual fire or explosion hazards noted.
Hazardous combustion products	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Nitrogen oxides.
5.3. Advice for firefighters	
Protective actions during firefighting	Extinguishing waters may present a risk of damage to the environmental, collect and dispose of as hazardous waste, in accordance with local legislation. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.
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6.2. Environmental precautions

Environmental precautions	Avoid discharge to the aquatic environment. Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Stop leak if possible without risk. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Small Spillages: Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Take care as floors and other surfaces may become slippery. Large spills: Dike area to contain spill. Pump into suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information. Avoid the spillage or runoff entering drains, sewers or watercourses. Once the majority of the liquid spill has been collected, use absorbant material to soak up liquid remnants. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.
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6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.
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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container. Do not store near heat sources or expose to high temperatures.
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Storage class	Chemical storage.
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7.3. Specific end use(s)

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Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

DIMETHICONE

No exposure limit value known.

PROPYLENE GLYCOL

Long-term exposure limit (8-hour TWA): WEL 474 mg/m³ 150 ppm particulate vapour

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

BENZALDEHYDE

No exposure limit value known.

SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

Heliotropine

No exposure limit value known.

ACRYLIC ACID

Acrylic Acid Workplace Exposure Limit in Denmark, Finland, France, Ireland, Portugal and Spain is: TWA - 8 hours: 2ppm.

Acrylic Acid Workplace Exposure Limit in Estonia, Greece, Norway, Sweden, Switzerland and Germany is: TWA - 8 hours: 10ppm.

UNDECA-1,4-LACTONE

No exposure limit value known.

Ethyl methylphenylglycidate

No exposure limit value known.

WEL = Workplace Exposure Limit

2-AMINO-2-METHYLPROPANOL (CAS: 124-68-5)

DNEL

Workers - Inhalation; Long term systemic effects: 6.5 mg/m³

Workers - Dermal; Long term systemic effects: 7.3 mg/kg bw/day

General population - Inhalation; Long term systemic effects: 1.6 mg/m³

General population - Dermal; Long term systemic effects: 37 mg/kg bw/day

General population - Oral; Long term systemic effects: 0.46 mg/kg bw/day

PNEC

- Fresh water; 0.188 mg/l

- Marine water; 0.0188 mg/l

- Intermittent release; 1.88 mg/l

- STP; 10 mg/l

- Sediment (Freshwater); 0.71 mg/kg sediment dw

- Sediment (Marinewater); 0.071 mg/kg sediment dw

- Soil; 0.03 mg/kg soil dw

PROPYLENE GLYCOL (CAS: 57-55-6)

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DNEL Industry - Inhalation; Long term systemic effects: 168 mg/m³
 Industry - Inhalation; Long term local effects: 10 mg/m³
 Consumer - Inhalation; Long term systemic effects: 50 mg/m³
 Consumer - Inhalation; Long term local effects: 10 mg/m³

PNEC - Fresh water; 260 mg/l
 - Marine water; 26 mg/l
 - STP; 20000 mg/kg
 - Sediment (Freshwater); 572 mg/kg
 - Sediment (Marinewater); 57.2 mg/kg
 - Soil; 50 mg/kg
 - Intermittent release; 183 mg/l

BENZALDEHYDE (CAS: 100-52-7)

DNEL Workers - Inhalation; Long term systemic effects, local effects: 9.8 mg/m³
 Workers - Dermal; Long term systemic effects: 1.14 mg/kg bw/day
 General population - Inhalation; Long term systemic effects, local effects: 4.9 mg/m³
 General population - Dermal, Oral; Long term systemic effects: 0.67 mg/kg bw/day

PNEC - Fresh water; 0.0024 mg/l
 - Marine water; 0.00024 mg/l
 - Intermittent release; 0.0107 mg/l
 - STP; 7.59 mg/l
 - Sediment (Freshwater); 0.0221 mg/kg sediment dw
 - Sediment (Marinewater); 0.00221 mg/kg sediment dw
 - Soil; 0.00301

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL Consumer - Inhalation; local effects: 1 mg/m³
 Industry - Inhalation; Long term local effects: 1 mg/m³

ETHYL ACETATE (CAS: 141-78-6)

DNEL Workers - Inhalation; Long term systemic effects: 734 mg/m³
 Workers - Inhalation; Short term Acute: 1468 mg/m³
 Workers - Inhalation; Long term local effects: 734 mg/m³
 Workers - Inhalation; Short term Acute: 1468 mg/m³
 Workers - Dermal; Long term systemic effects: 63 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 367 mg/m³
 General population - Inhalation; Short term Acute: 734 mg/m³
 General population - Inhalation; Long term local effects: 367 mg/m³
 General population - Inhalation; Short term Acute: 734 mg/m³
 General population - Dermal; Long term systemic effects: 37 mg/kg bw/day
 General population - Oral; Long term systemic effects: 4.5 mg/kg bw/day

PNEC - Fresh water; 0.24 mg/l
 - Marine water; 0.024 mg/l
 - Intermittent release; 1.65 mg/l
 - Sediment (Freshwater); 1.15 mg/kg sediment dw
 - Sediment (Marinewater); 0.115 mg/kg sediment dw
 - Soil; 0.148 mg/kg soil dw

d-LIMONENE (CAS: 5989-27-5)

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DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³
 Workers - Dermal; Short term local effects, Acute: 0.222 mg/cm²
 General population - Inhalation; Long term systemic effects: 8.33 mg/m³
 General population - Dermal; Short term local effects, Acute: 0.111 mg/cm²
 General population - Oral; Long term systemic effects: 4.76 mg/kg bw/day

PNEC - Fresh water; 0.0054 mg/l
 - Marine water; 0.00054 mg/l
 - STP; 1.8 mg/l
 - Sediment (Freshwater); 1.32 mg/kg sediment dw
 - Marine water; 0.13 mg/kg sediment dw
 - Soil; 0.262 mg/kg soil dw

Heliotropine (CAS: 120-57-0)

DNEL Workers - Inhalation; Long term systemic effects: 3.5 mg/m³
 Workers - Dermal; Long term systemic effects: 0.5 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 0.87 mg/m³
 General population - Dermal, Oral; Long term systemic effects: 0.25 mg/kg bw/day

PNEC - Fresh water; 0.0025 mg/l
 - Marine water; 0.00025 mg/l
 - Intermittent release; 0.025 mg/l
 - STP; 10 mg/l
 - Soil; 0.00084 mg/kg soil dw
 - Sediment (Freshwater); 0.0119 mg/kg sediment dw
 - Sediment (Marinewater); 0.0012 mg/kg sediment dw

ACRYLIC ACID (CAS: 79-10-7)

DNEL Workers - Inhalation; Long term local effects: 30 mg/m³
 Workers - Inhalation; Short term Acute: 30 mg/m³
 Workers - Dermal; Short term Acute, local effects: 1 mg/cm²
 General population - Inhalation; Long term local effects: 3.6 mg/m³
 General population - Inhalation; Short term Acute: 3.6 mg/m³
 General population - Dermal; Short term local effects: 1 mg/cm²

PNEC - Fresh water; 0.003 mg/l
 - Marine water; 0.0003 mg/l
 - Intermittent release; 0.0013 mg/l
 - STP; 0.9 mg/l
 - Sediment (Freshwater); 0.0236 mg/kg sediment dw
 - Sediment (Marinewater); 0.002346 mg/kg sediment dw
 - Soil; 1 mg/kg soil dw

CITRAL (CAS: 5392-40-5)

DNEL Workers - Inhalation; Long term systemic effects: 9 mg/m³
 Workers - Dermal; Long term systemic effects: 1.7 mg/kg bw/day
 Workers - Dermal; Long term local effects: 0.14 mg/cm²
 General population - Inhalation; Long term systemic effects: 2.7 mg/m³
 General population - Dermal; Long term systemic effects: 1 mg/kg bw/day
 General population - Dermal; Long term local effects: 0.14 mg/cm²
 General population - Oral; Long term systemic effects: 0.6 mg/kg bw/day

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- PNEC**
- Fresh water; 0.00678 mg/l
 - Marine water; 0.000678 mg/l
 - Intermittent release; 0.0678 mg/l
 - STP; 1.6 mg/l
 - Sediment (Freshwater); 0.125 mg/kg sediment dw
 - Sediment (Marinewater); 0.0125 mg/kg sediment dw
 - Soil; 0.0209 mg/kg soil dw

UNDECA-1,4-LACTONE (CAS: 104-67-6)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 19 mg/m³
 - Workers - Dermal; Long term systemic effects: 5.38 mg/kg bw/day
 - General population - Inhalation; Long term systemic effects: 4.68 mg/m³
 - General population - Dermal, Oral; Long term systemic effects: 2.7 mg/kg bw/day

- PNEC**
- Fresh water; 0.00585 mg/l
 - Marine water; 0.000585 mg/l
 - Intermittent release; 0.0585 mg/l
 - STP; 80 mg/l
 - Sediment (Freshwater); 0.628 mg/kg sediment dw
 - Sediment (Marinewater); 0.063 mg/kg sediment dw
 - Soil; 0.122 mg/kg soil dw

Ethyl methylphenylglycidate (CAS: 77-83-8)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 2.45 mg/m³
 - Workers - Dermal; Long term systemic effects: 0.7 mg/kg bw/day
 - General population - Inhalation; Long term systemic effects: 0.61 mg/m³
 - General population - Dermal, Oral; Long term systemic effects: 0.35 mg/kg bw/day

- PNEC**
- Fresh water; 0.0084 mg/l
 - Marine water; 0.0084 mg/l
 - Intermittent release; 0.084 mg/l
 - STP; 10 mg/l
 - Sediment (Freshwater); 0.214 mg/kg sediment dw
 - Sediment (Marinewater); 0.0214 mg/kg sediment dw
 - Soil; 0.0378 mg/kg soil dw

MYRCENE (CAS: 123-35-3)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 5.83 mg/m³
 - Workers - Dermal; Long term systemic effects: 0.83 mg/kg bw/day
 - General population - Inhalation; Long term systemic effects: 1.25 mg/m³
 - General population - Dermal; Long term systemic effects: 0.42 mg/kg bw/day
 - General population - Oral; Long term systemic effects: 0.42 mg/kg bw/day

- PNEC**
- Fresh water; 0.008 mg/l
 - Marine water; 0.0008 mg/l
 - STP; 0.2 mg/l
 - Sediment (Freshwater); 5.022 mg/kg sediment dw
 - Sediment (Marinewater); 0.502 mg/kg sediment dw
 - Soil; 1.015 mg/kg soil dw

3,7-DIMETHYL-1,6-OCTADIEN-3-OL (CAS: 78-70-6)

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DNEL	Workers - Inhalation; Long term systemic effects: 2.8 mg/m ³
	Workers - Inhalation; Short term Acute: 16.5 mg/m ³
	Workers - Dermal; Long term systemic effects: 2.5 mg/kg bw/day
	Workers - Dermal; Short term Acute: 5 mg/kg bw/day
	Workers - Dermal; Long term local effects: 15 mg/cm ²
	Workers - Dermal; Short term Acute: 15 mg/cm ²
	General population - Inhalation; Long term systemic effects: 0.7 mg/m ³
	General population - Inhalation; Short term Acute: 4.1 mg/m ³
	General population - Dermal; Long term systemic effects: 1.25 mg/kg bw/day
	General population - Dermal; Short term Acute: 2.5 mg/kg bw/day
	General population - Dermal; Long term local effects: 15 mg/cm ²
	General population - Dermal; Short term Acute: 15 mg/cm ²
	General population - Oral; Long term systemic effects: 0.2 mg/kg bw/day
General population - Oral; Short term Acute: 1.2 mg/kg bw/day	
PNEC	- Fresh water; 0.2 mg/l
	- Marine water; 0.02 mg/l
	- Intermittent release; 2 mg/l
	- STP; 10 mg/l
	- Sediment (Freshwater); 2.22 mg/kg sediment dw
	- Sediment (Marinewater); 0.222 mg/kg sediment dw
	- Soil; 0.327 mg/kg soil dw

CITRONELLOL (CAS: 106-22-9)

DNEL	Workers - Inhalation; Long term systemic effects: 161.6 mg/m ³
	Workers - Inhalation; Long term local effects: 10 mg/m ³
	Workers - Inhalation; Short term Acute: 10 mg/m ³
	Workers - Dermal; Long term systemic effects: 327.4 mg/kg bw/day
	General population - Inhalation; Long term systemic effects: 47.8 mg/m ³
	General population - Inhalation; Long term local effects: 10 mg/m ³
	General population - Inhalation; Short term Acute: 10 mg/m ³
	General population - Dermal; Long term systemic effects: 196.4 mg/kg bw/day
	General population - Dermal; Short term local effects, Acute: 2.950 mg/cm ²
	Workers - Dermal; Short term Acute, local effects: 2.950 mg/cm ²
General population - Oral; Long term systemic effects: 13.8 mg/kg bw/day	
PNEC	- Fresh water; 0.0024 mg/l
	- Marine water; 0.00024 mg/l
	- Intermittent release; 0.024 mg/l
	- STP; 580 mg/l
	- Sediment (Freshwater); 0.0256 mg/kg sediment dw
	- Sediment (Marinewater); 0.00256 mg/kg sediment dw
	- Soil; 0.00371 mg/kg soil dw

GERANIOL (CAS: 106-24-1)

DNEL	Workers - Inhalation; Long term systemic effects: 161.6 mg/m ³
	Workers - Dermal; Long term systemic effects: 12.5 mg/kg bw/day
	Workers - Dermal; Long term local effects: 11.8 mg/cm ²
	General population - Inhalation; Long term systemic effects: 47.8 mg/m ³
	General population - Dermal; Long term systemic effects: 7.5 mg/kg bw/day
	General population - Dermal; Long term local effects: 11.8 mg/cm ²
General population - Oral; Long term systemic effects: 13.75 mg/kg bw/day	

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PNEC

- Fresh water; 0.0108 mg/l
- Marine water; 0.00108 mg/l
- Intermittent release; 0.108 mg/l
- STP; 0.7 mg/l
- Sediment (Freshwater); 0.115 mg/kg
- Sediment (Marinewater); 0.0115 mg/kg
- Soil; 0.0167 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours.

Eye/face protection

The following protection should be worn: Chemical splash goggles. Use safety glasses (with side shields), consistent with EN 166 or equivalent.

Hand protection

Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Use gloves with insulation for thermal protection (EN 407), when needed. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other skin and body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. Do not eat, drink or smoke when using this product.

Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. Use CE approved air-purifying respirator with combination filter type A1P2 minimum.

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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

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	White.
Odour	Characteristic. Perfume.
pH	pH (concentrated solution): 5.5 - 7.0
Initial boiling point and range	>105°C @ 760 mm Hg
Flash point	>150°C Closed cup.
Relative density	0.950 - 0.960 @ 20°C
Solubility(ies)	Emulsible in water.
Viscosity	~6500 - 7500 cP @ 20°C
Comments	Information given is applicable to the product as supplied.

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 120 g/litre.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Will not polymerise.
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10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid freezing.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Strong acids.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.
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General information	To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	May cause severe eye irritation.

Toxicological information on ingredients.

HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 3,161.0

Species Rabbit

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 3,161.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 5.7

Species Rat

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (dusts/mists mg/l) 5.7

Skin corrosion/irritation

Animal data Repeated or prolonged contact may cause irritation, since the material may remove the natural greases in skin, resulting in dryness, cracking and possibly dermatitis.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

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Genotoxicity - in vivo	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. May be fatal if swallowed and enters airways.
<u>Inhalation</u>	
Inhalation	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<u>Ingestion</u>	
Ingestion	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<u>Skin contact</u>	
Skin contact	Repeated exposure may cause skin dryness or cracking.
<u>Eye contact</u>	
Eye contact	May be slightly irritating to eyes.
<u>Acute and chronic health hazards</u>	
Acute and chronic health hazards	Aspiration hazard if swallowed.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Ecological information on ingredients.

HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EL₅₀, 48 hours: >1000 mg/l,

Acute toxicity - aquatic plants EL₅₀, 72 hours: >1000 mg/l, Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Ecological information on ingredients.

HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

Persistence and degradability The product is readily biodegradable.

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12.3. Bioaccumulative potential

Ecological information on ingredients.

HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Ecological information on ingredients.

HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

Mobility The product contains substances which are insoluble in water and which may spread on water surfaces.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Waste class	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

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14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste) Regulations 1980 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Dangerous Substances Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Revision date	29/06/2018
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SDS number	20539
SDS status	Approved.

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Hazard statements in full

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H290 May be corrosive to metals.
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.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.