SAFETY DATA SHEET
Quantum Traffic Film Remover

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

1.1. Product identifier

Product name Quantum Traffic Film Remover

Product number ZGBTRFILREM05L, ZGBTRFILREM25L

Internal identification B20920, 30058, 30059

Container size 25 Litre Drums, 205 Litre Drums

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

Identified uses Cleaning agent.

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))

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

Human health The liquid may be irritating to skin. Irritating to eyes.

Environmental The product is not expected to be hazardous to the environment.

2.2. Label elements

Pictogram

Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

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Precautionary statements	P260 Do not breathe vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor. P321 Specific treatment (see medical advice on this label). P363 Wash contaminated clothing before reuse. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.
Contains	TRISODIUM NITRILOTRIACETATE, SODIUM HYDROXIDE
Detergent labelling	< 5% amphoteric surfactants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% NTA (nitrilotriacetic acid) and salts thereof, < 5% perfumes, Contains BENZISOTHIAZOLINONE

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TRISODIUM NITRILOTRIACETATE **1-5%**

CAS number: 5064-31-3 | EC number: 225-768-6 | REACH registration number: 01-2119519239-36-XXXX

Classification
Acute Tox. 4 - H302
Eye Irrit. 2 - H319
Carc. 2 - H351

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

ALKYL POLYGLUCOSIDE **<1%**

CAS number: 68515-73-1 | EC number: 500-220-1 | REACH registration number: 01-2119488530-36-XXXX

Classification
Eye Dam. 1 - H318

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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

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

UNDECA-1,4-LACTONE **<1%**

CAS number: 104-67-6 EC number: 203-225-4

Classification
Aquatic Chronic 3 - H412

BUTYLATED HYDROXYTOLUENE **<1%**

CAS number: 128-37-0 EC number: 204-881-4 REACH registration number: 01-2119565113-46-XXXX

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

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.

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Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact Remove affected person from source of contamination. 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. Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.

Skin contact Skin irritation. May cause serious chemical burns to the skin.

Eye contact Severe irritation, burning and tearing.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

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

Specific hazards Irritating gases or vapours.

Hazardous combustion products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Control run-off water by containing and keeping it out of sewers and watercourses.

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

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions 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. Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid contact with skin and eyes.

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. Avoid freezing. Keep only in the original container.

Storage class Chemical storage.

7.3. Specific end use(s)

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

SODIUM HYDROXIDE

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

ALKYL POLYGLUCOSIDE

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.

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.

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UNDECA-1,4-LACTONE

No exposure limit value known.

BUTYLATED HYDROXYTOLUENE

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

Ethyl methylphenylglycidate

No exposure limit value known.
WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

TRISODIUM NITRILOTRIACETATE (CAS: 5064-31-3)

DNEL
Industry - Inhalation; Short term systemic effects: 5.25 mg/m³
Industry - Inhalation; Short term local effects: 5.25 mg/m³
Industry - Inhalation; Long term systemic effects: 3.2 mg/m³
Consumer - Inhalation; Short term systemic effects: 1.75 mg/m³
Consumer - Oral; Long term systemic effects: 0.3 mg/kg bw/day
Workers - Inhalation; Short term Acute: 9.6 mg/m³
General population - Inhalation; Short term Acute: 2.4 mg/m³
General population - Oral; Short term Acute: 0.9 mg/kg bw/day

PNEC
- Fresh water; 0.93 mg/l
- Marine water; 0.093 mg/l
- Intermittent release; 0.8 mg/l
- STP; 270 mg/l
- Sediment (Freshwater); 3.64 mg/kg
- Sediment (Marinewater); 0.364 mg/kg
- Soil; 0.182 mg/kg

SODIUM HYDROXIDE (CAS: 1310-73-2)

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

ALKYL POLYGLUCOSIDE (CAS: 68515-73-1)

DNEL
Workers - Inhalation; Long term systemic effects: 420 mg/m³
General population - Inhalation; Long term systemic effects: 124 mg/m³
General population - Oral; Long term systemic effects: 35.7 mg/kg bw/day

PNEC
- Fresh water; 0.176 mg/l
- Marine water; 0.0176 mg/l
- Intermittent release; 0.27 mg/l
- STP; 560 mg/l
- Sediment (Freshwater); 1.516 mg/kg sediment dw
- Sediment (Marinewater); 0.152 mg/kg sediment dw
- Soil; 0.654 mg/kg soil dw

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

DNEL
Workers - Inhalation; Long term local effects: 1.5 mg/m³
Workers - Inhalation; Short term Acute: 1.5 mg/m³
General population - Inhalation; Long term local effects: 0.6 mg/m³
General population - Oral; Long term systemic effects: 25 mg/kg bw/day

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PNEC

- Fresh water; 2.2 mg/l
- Marine water; 0.22 mg/l
- Intermittent release; 1.2 mg/l
- STP; 43 mg/l
- Soil; 0.72 mg/kg soil dw

SODIUM ALKYLAMINE DICARBOXYLATE (CAS: 90170-43-7)

DNEL

Workers - Inhalation; Long term systemic effects: 980 mg/m³
Workers - Dermal; Long term systemic effects: 2.67 mg/kg bw/day

PNEC

- Fresh water; 0.1 mg/l
- Marine water; 0.01 mg/l
- Intermittent release; 0.1 mg/l
- STP; 0.3 mg/l

SODIUM (XYLENES AND 4-ETHYLBENZENE) SULPHONATE

DNEL

Workers - Inhalation; Long term systemic effects: 26.9 mg/m³
Workers - Dermal; Long term systemic effects: 136.25 mg/kg bw/day
Workers - Dermal; Long term local effects: 0.096 mg/cm²
General population - Inhalation; Long term systemic effects: 6.6 mg/m³
General population - Dermal; Long term systemic effects: 68.1 mg/kg bw/day
General population - Dermal; Long term local effects: 0.048 mg/cm²
General population - Oral; Long term systemic effects: 3.8 mg/kg bw/day

PNEC

- Fresh water; 0.23 mg/l
- Intermittent release; 2.3 mg/l
- STP; 100 mg/l

PROPYLENE GLYCOL (CAS: 57-55-6)

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

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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

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)

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

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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

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

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

BUTYLATED HYDROXYTOLUENE (CAS: 128-37-0)

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: 0.86 mg/m³
General population - Dermal, Oral; Long term systemic effects: 0.25 mg/kg bw/day

PNEC
- Fresh water; 0.000199 mg/l
- Marine water; 0.0000199 mg/l
- Intermittent release; 0.00199 mg/l
- STP; 0.17 mg/l
- Sediment (Freshwater); 0.996 mg/l
- Sediment (Marinewater); 0.00996 mg/l
- Soil; 0.04769 mg/l

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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)

DNEL

Workers - Inhalation; Long term systemic effects: 2.8 mg/m³
Workers - Inhalation; Short term Acute: 16.5 mg/m³
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/cm²
Workers - Dermal; Short term Acute: 15 mg/cm²
General population - Inhalation; Long term systemic effects: 0.7 mg/m³
General population - Inhalation; Short term Acute: 4.1 mg/m³
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/cm²
General population - Dermal; Short term Acute: 15 mg/cm²
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)

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DNEL

Workers - Inhalation; Long term systemic effects: 161.6 mg/m³
Workers - Inhalation; Long term local effects: 10 mg/m³
Workers - Inhalation; Short term Acute: 10 mg/m³
Workers - Dermal; Long term systemic effects: 327.4 mg/kg bw/day
General population - Inhalation; Long term systemic effects: 47.8 mg/m³
General population - Inhalation; Long term local effects: 10 mg/m³
General population - Inhalation; Short term Acute: 10 mg/m³
General population - Dermal; Long term systemic effects: 196.4 mg/kg bw/day
General population - Dermal; Short term local effects, Acute: 2.950 mg/cm²
Workers - Dermal; Short term Acute, local effects: 2.950 mg/cm²
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/m³
Workers - Dermal; Long term systemic effects: 12.5 mg/kg bw/day
Workers - Dermal; Long term local effects: 11.8 mg/cm²
General population - Inhalation; Long term systemic effects: 47.8 mg/m³
General population - Dermal; Long term systemic effects: 7.5 mg/kg bw/day
General population - Dermal; Long term local effects: 11.8 mg/cm²
General population - Oral; Long term systemic effects: 13.75 mg/kg bw/day

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. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Contact lenses should not be worn when working with this chemical. Use safety glasses (with side shields), consistent with EN 166 or equivalent.

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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 appropriate clothing to prevent any possibility of skin contact. Provide eyewash station and safety shower. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.
Hygiene measures	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Colour	Pink.
Odour	Slight. Characteristic. Fruity.
pH	pH (concentrated solution): 12.5 to 13.5
Melting point	0°C
Initial boiling point and range	100°C @ 760 mm Hg
Flash point	> 150°C Closed cup.
Relative density	1.030 g/ml @ 20°C
Solubility(ies)	Completely soluble in water.
Comments	Information given is applicable to the product as supplied.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid Strong alkalis. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 51,665.78

General information To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion May cause discomfort if swallowed.

Skin contact Irritating to skin.

Eye contact Irritating to eyes.

Acute and chronic health hazards Not expected to be a health hazard when used under normal conditions.

Route of exposure Skin and/or eye contact

Target organs Eyes Skin Respiratory system, lungs Gastro-intestinal tract

Medical symptoms Irritation of eyes and mucous membranes. Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Toxicological information on ingredients.

TRISODIUM NITRILOTRIACETATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 1,450.0

Species Rat

ATE oral (mg/kg) 1,450.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg) 10,000.0

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Species	Rabbit

Skin corrosion/irritation

Animal data	Rabbit Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Rabbit Irritating to eyes.

SODIUM HYDROXIDE

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation	Causes severe burns.

Serious eye damage/irritation

Serious eye damage/irritation	Causes burns.

Respiratory sensitisation

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

Skin sensitisation

Skin 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.

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard	No data available.

Skin contact	Strong caustic effect on skin and mucous membranes.
Eye contact	Strong caustic effect.

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PROPYLENE GLYCOL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	20,001.0
Species	Rat
ATE oral (mg/kg)	20,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,001.0
Species	Rabbit
ATE dermal (mg/kg)	2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} gases ppmV)	100,000.0
Species	Rabbit
ATE inhalation (gases ppm)	100,000.0

Skin corrosion/irritation

Animal data	Dose: 0.5ml, 4 hr, Rabbit OECD Guideline 404. Not irritating.
Human skin model test	Not available.

Serious eye damage/irritation

Serious eye damage/irritation	Not irritating.

Respiratory sensitisation

Respiratory sensitisation	There is no evidence that the material can lead to respiratory hypersensitivity.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Gene mutation:: Negative.
Genotoxicity - in vivo	Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity	There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility	Fertility: - NOAEL 10100 mg/kg, Oral, Mouse F1 Does not interfere with fertility.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 10100 mg/kg, Oral, Mouse Does not interfere with development.

Specific target organ toxicity - repeated exposure

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STOT - repeated exposure	NOAEL 1700 (Male) mg/kg, Oral, Rat Repeated exposure to high levels may affect the central nervous system.

Inhalation	Harmful by inhalation.
Ingestion	Nausea, vomiting.
Skin contact	Slightly irritating.
Eye contact	Irritating to eyes.

ETHYL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,620.0
Species	Rat
ATE oral (mg/kg)	5,620.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	20,001.0
Species	Rabbit
ATE dermal (mg/kg)	20,001.0

Skin corrosion/irritation

Animal data	Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Potentially irritant.

Respiratory sensitisation

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

Skin sensitisation

Skin sensitisation	Conclusive data but not sufficient for classification.

Germ cell mutagenicity

Genotoxicity - in vitro	Conclusive data but not sufficient for classification.
Genotoxicity - in vivo	Conclusive data but not sufficient for classification.

Carcinogenicity

Carcinogenicity	Data lacking.
IARC carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity

Reproductive toxicity - fertility	Conclusive data but not sufficient for classification.

Specific target organ toxicity - single exposure

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STOT - single exposure May cause drowsiness and dizziness.

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Conclusive data but not sufficient for classification.

SECTION 12: Ecological Information

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

Ecological information on ingredients.

TRISODIUM NITRILOTRIACETATE

Ecotoxicity The product contains a substance which is harmful to aquatic organisms.

PROPYLENE GLYCOL

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

TRISODIUM NITRILOTRIACETATE

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC_{50}, 96 hours: 98 mg/l,

Acute toxicity - aquatic plants EC_{50}, 72 hours: > 91.5 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC_{50}, 8 hours: 3200 - 5600 mg/l, Pseudomonas fluorescens

SODIUM HYDROXIDE

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 40.4 mg/l, Ceriodaphnia Sp.

PROPYLENE GLYCOL

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 40613 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates LC_{50}, 48 hours: 18340 mg/l, Freshwater invertebrates

Acute toxicity - aquatic plants EC_{50}, 96 hours: 19000 mg/l, Selenastrum capricornutum

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Acute toxicity - microorganisms	LC_{50}, 3 hours: >1000 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, 7 days: 13020 mg/l, Freshwater invertebrates

ETHYL ACETATE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 220 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 24 hours: 2500 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 48 hours: 5600 mg/l, Scenedesmus subspicatus

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

Ecological information on ingredients.

SODIUM HYDROXIDE

Persistence and degradability	The substances in this product are readily biodegradable.

PROPYLENE GLYCOL

Phototransformation	Water - DT_{50} : 0.83 days
Biodegradation	Water - Degradation (%) 81.7: 28 days Water - Degradation (%) 90.6: 64 days 1, 2-Propanediol will degrade in anaerobic conditions in various forms of soil once the correct bacterial conditions have been established. The intermediate propionic acid may alter soil pH but it is expected that the buffering capacity of the soil will counteract this.

ETHYL ACETATE

Persistence and degradability	The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Ecological information on ingredients.

TRISODIUM NITRILOTRIACETATE

Bioaccumulative potential	Not potentially bioaccumulative BCF: < 3, Brachydanio rerio (Zebra Fish)

SODIUM HYDROXIDE

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Bioaccumulative potential The product is not bioaccumulating.

PROPYLENE GLYCOL

Bioaccumulative potential Low potential. : 0.09,

Partition coefficient log Kow: -1.07

ETHYL ACETATE

Bioaccumulative potential Low potential.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

Ecological information on ingredients.

TRISODIUM NITRILOTRIACETATE

Mobility The product is non-volatile.

PROPYLENE GLYCOL

Mobility Volatilization from natural bodies of water or moist soil is not expected to be an important fate process. Potential for mobility in soil is very high.

Adsorption/desorption coefficient Water - Koc: 2.9 @ °C

Henry's law constant 0.00566 Pa m3/mol @ 12°C

Surface tension 71.6 mN/m @ 21.5°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

TRISODIUM NITRILOTRIACETATE

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

SODIUM HYDROXIDE

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

PROPYLENE GLYCOL

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

ETHYL ACETATE

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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 When handling waste, the safety precautions applying to handling of the product should be considered. The packaging must be empty (drop-free when inverted). Waste packaging should be collected for reuse or recycling.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3266

UN No. (IMDG) 3266

UN No. (ICAO) 3266

UN No. (ADN) 3266

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM HYDROXIDE)

Proper shipping name (IMDG) CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM HYDROXIDE)

Proper shipping name (ICAO) CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM HYDROXIDE)

Proper shipping name (ADN) CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM HYDROXIDE)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C5

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels

14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

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14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

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

SECTION 15: Regulatory information

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

National regulations	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

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Issued by	HS&E Manager.
Revision date	29/06/2018
Revision	5
Supersedes date	19/01/2017
SDS number	20537
SDS status	Approved.

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Hazard statements in full

H225 Highly flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
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.
H351 Suspected of causing cancer.
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.