SAFETY DATA SHEET Quantum Screenwash - Ready To Use NF

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

1.1. Product identifier

Product name Quantum Screenwash - Ready To Use NF

Product number ZGBOOQSWRO 5LNF

Internal identification B18931, 18528

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

Identified uses All purpose automotive windscreen cleaner

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 Flam. Liq. 3 - H226

Health hazards Not Classified

Environmental hazards Not Classified

Human health Vapours and spray/mists in high concentrations are narcotic. Symptoms following

overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.

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

Physicochemical The product is flammable. Heating may generate flammable vapours.

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H226 Flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.
P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/ attention.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container in accordance with national regulations.

P102 Keep out of reach of children.

Detergent labelling

< 5% non-ionic surfactants, < 5% perfumes, Contains BENZISOTHIAZOLINONE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHANOL			5-10%
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-	

Ser. 04-17-5 Lo number. 200-570-0 NEAOTH egistration number. 01

2119457610-43-XXXX

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319

METHANOL	<0.6%

CAS number: 67-56-1 EC number: 200-659-6 REACH registration number: 01-

2119433307-44-XXXX

Classification

Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370

2-BUTOXYETHANOL			<1%
CAS number: 111-76-2	EC number: 203-905-0	REACH registration number: 01-2119475108-36-XXXX	
Classification			
Acute Tox. 4 - H302			
Acute Tox. 4 - H312			
Acute Tox. 4 - H332			
Skin Irrit. 2 - H315			
Eve Irrit. 2 - H319			

2,6-DIMETHYL-7-OCTEN-2-OL

CAS number: 18479-58-8

EC number: 242-362-4

REACH registration number: 012119457274-37-XXXX

Classification

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

PROPYLENE GLYCOL

CAS number: 57-55-6

EC number: 200-338-0

REACH registration number: 01-2119456809-23-XXXX

Classification

Not Classified

PIN-2(10)-ENE

CAS number: 127-91-3

EC number: 204-872-5

Classification
Flam. Liq. 3 - H226
Skin Irrit. 2 - H315
Skin Sens. 1B - H317
Asp. Tox. 1 - H304

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TERPINOLENE <1%

Classification

Skin Sens. 1B - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

ALPHA-PINENE <1%

M factor (Acute) = 1

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400

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

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

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. Never give anything by mouth to an unconscious person. Get medical attention if

any discomfort continues.

Inhalation Place unconscious person on their side in the recovery position and ensure breathing can

take place. When breathing is difficult, properly trained personnel may assist affected person

by administering oxygen. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if

readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical

attention immediately. Show this Safety Data Sheet to the medical personnel.

Skin contact Immediately remove contaminated clothing. Rinse immediately with plenty of water. Remove

contaminated clothing.

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Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Get medical attention promptly if symptoms occur after washing.

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. In case of

overexposure, organic solvents may depress the central nervous system causing dizziness

and intoxication, and at very high concentrations unconsciousness and death.

Ingestion May cause unconsciousness, blindness and possibly death.

Skin contact Skin irritation.

Eye contact May cause blurred vision and serious eye damage.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Alcohol-resistant foam. Carbon dioxide (CO2). Dry

chemicals, sand, dolomite etc. Do not use water, if avoidable.

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 The product is flammable. Heating may generate flammable vapours. Thermal decomposition

or combustion products may include the following substances: Toxic 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 appropriate protective

clothing.

SECTION 6: Accidental release measures

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 Spillages or uncontrolled discharges into watercourses must be reported immediately to the

Environmental Agency or other appropriate regulatory body. 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.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Keep combustible materials away from spillage. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage. Flush contaminated area with plenty of water. Take care as floors and other surfaces may become slippery.

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 Keep away from heat, sparks and open flame. Do not wear contact lenses. Avoid spilling. Eye

> wash facilities and emergency shower must be available when handling this product. During application and drying, solvent vapours will be emitted. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry and cool place. Store under well-ventilated Storage precautions

conditions at a temperature below 25°C.

Storage class Flammable liquid 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

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Long-term exposure limit (8-hour TWA): 2006/15/EC 200 ppm 260 mg/m³

Sk

2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³ Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m³ Sk

2,6-DIMETHYL-7-OCTEN-2-OL

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

SODIUM HYDROXIDE

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

PIN-2(10)-ENE

No exposure limit value known.

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TERPINOLENE

No exposure limit value known.

ALPHA-PINENE

No exposure limit value known.

BUTYLATED HYDROXYTOLUENE

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

WEL = Workplace Exposure Limit Sk = Can be absorbed through skin. Sk = Can be absorbed through the skin.

Ingredient comments WEL = Workplace Exposure Limits

ETHANOL (CAS: 64-17-5)

DNEL Workers - Dermal; Long term systemic effects: 343 mg/kg

Workers - Inhalation; Long term systemic effects: 950 mg/m³ Workers - Inhalation; Short term Acute, local effects: 1900 mg/m³ Consumer - Inhalation; Short term Acute, local effects: 950 mg/m³ Consumer - Dermal; Long term systemic effects: 206 mg/kg Consumer - Inhalation; Long term systemic effects: 114 mg/m³

Consumer - Oral; Long term systemic effects: 87 mg/kg

PNEC - Fresh water; 0.96 mg/l

- Marine water; 0.79 mg/l

- STP; 580 mg/l

- Intermittent release; 2.75 mg/l

Sediment (Freshwater); 3.6 mg/kg sediment dwSediment (Marinewater); 2.9 mg/kg sediment dw

- Soil; 0.63 mg/kg soil dw

METHANOL (CAS: 67-56-1)

DNEL Industry - Dermal; Short term Acute: 40 mg/kg bw/day

Industry - Dermal; Long term systemic effects: 40 mg/kg bw/day

Industry - Inhalation; Short term Acute: 260 mg/m³

Industry - Inhalation; Long term systemic effects: 260 mg/m³ Consumer - Dermal; Short term Acute: 8 mg/kg bw/day

Consumer - Dermal; Long term systemic effects: 8 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 50 mg/m³

Industry - Inhalation; Short term Acute: 260 mg/m³ Industry - Inhalation; Long term local effects: 260 mg/m³ Consumer - Inhalation; Short term Acute: 50 mg/m³ Consumer - Inhalation; Long term local effects: 50 mg/m³

PNEC - Fresh water; 20.8 mg/l

Marine water; 2.08 mg/lSoil; 3.18 mg/kg soil dw

- STP; 100 mg/l

- Sediment (Freshwater); 77 mg/kg sediment dw

- Intermittent release; 1540 mg/l

- Sediment (Marinewater); 7.7 mg/kg sediment dw

2-BUTOXYETHANOL (CAS: 111-76-2)

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DNEL Industry - Dermal; Short term : 89 mg/kg/day

Industry - Inhalation; Short term: 663 mg/m³ Industry - Dermal; Long term: 75 mg/kg/day Industry - Inhalation; Long term: 98 mg/m³ Consumer - Dermal; Short term: 44.5 mg/kg/day Consumer - Oral; Short term: 13.4 mg/kg/day Consumer - Inhalation; Short term: 123 mg/m³ Consumer - Inhalation; Long term: 49 mg/m³

PNEC - Fresh water; 8.8 mg/l

Marine water; 0.88 mg/lSoil; 3.13 mg/kg soil dwIntermittent release; 9.1 mg/l

Sediment (Freshwater); 34.6 mg/kg sediment dwSediment (Marinewater); 3.46 mg/kg sediment dw

- STP; 463 mg/l

FATTY ALCOHOL ALKOXYLATE 4 (CAS: 111905-53-4)

DNEL No DNEL available.

PNEC No PNEC available.

2,6-DIMETHYL-7-OCTEN-2-OL (CAS: 18479-58-8)

DNEL Workers - Inhalation; Long term systemic effects: 73.5 mg/m³

Workers - Dermal; Long term systemic effects: 20.8 mg/kg bw/day

General population - Inhalation; Long term systemic effects: 21.7 mg/m³ General population - Dermal, Oral; Long term systemic effects: 12.5 mg/kg bw/day

PNEC - Fresh water; 0.0278 mg/l

PNEC

Marine water; 0.00278 mg/lIntermittent release; 0.278 mg/l

- STP; 10 mg/l

Sediment (Freshwater); 0.594 mg/kg sediment dwSediment (Marinewater); 0.0594 mg/kg sediment dw

- Soil; 0.103 mg/kg soil dw

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

Consumer initiation, Long term local chects. To mg/m

- Fresh water; 260 mg/l

Marine water; 26 mg/lSTP; 20000 mg/kg

Sediment (Freshwater); 572 mg/kgSediment (Marinewater); 57.2 mg/kg

- Soil; 50 mg/kg

- Intermittent release; 183 mg/l

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/lIntermittent release; 2 mg/l

- STP; 10 mg/l

Sediment (Freshwater); 2.22 mg/kg sediment dwSediment (Marinewater); 0.222 mg/kg sediment dw

- Soil; 0.327 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

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

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

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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/kgSediment (Marinewater); 0.0115 mg/kg

- Soil; 0.0167 mg/kg

BUTYLPHENYL METHYLPROPIONAL (CAS: 80-54-6)

DNEL Workers - Inhalation; Long term systemic effects: 0.201 mg/m³

Workers - Dermal; Long term systemic effects: 0.0569 mg/kg bw/day

Workers - Dermal; Long term local effects: 0.41 mg/cm² Workers - Dermal; Short term Acute: 0.41 mg/cm²

General population - Inhalation; Long term systemic effects: 0.0593 mg/m³ General population - Inhalation; Long term local effects: 0.0593 mg/m³

General population - Dermal; Long term systemic effects: 0.0342 mg/kg bw/day

General population - Dermal; Short term Acute: 0.205 mg/cm² General population - Dermal; Long term local effects: 0.41 mg/cm²

General population - Oral; Long term systemic effects: 0.0342 mg/kg bw/day

General population - Oral; Short term Acute: 0.205 mg/kg bw/day

PNEC - Fresh water; 0.00204 mg/l

- Marine water; 0.000204 mg/l - Intermittent release; 0.0204 mg/l

- STP; 1.049 mg/l

- Soil; 0.0463 mg/kg soil dw

PARA-MENTH-1-EN-8-OL (CAS: 98-55-5)

DNEL No DNEL available.

PNEC - STP; 2.6 mg/l

Sediment (Freshwater); 1.85 mg/kgSediment (Marinewater); 0.185 mg/kg

- Soil; 0.329 mg/kg

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/lIntermittent release; 0.024 mg/l

- STP; 580 mg/l

Sediment (Freshwater); 0.0256 mg/kg sediment dwSediment (Marinewater); 0.00256 mg/kg sediment dw

- Soil; 0.00371 mg/kg soil dw

SODIUM HYDROXIDE (CAS: 1310-73-2)

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

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

Nerol (CAS: 106-25-2)

DNEL Workers - Inhalation; Long term systemic effects: 5.4 mg/m³

Workers - Dermal; Long term systemic effects: 0.76 mg/kg bw/day

Workers - Dermal; Long term local effects: 0.133 mg/cm²

General population - Inhalation; Long term systemic effects: 1.3 mg/m³ General population - Dermal; Long term systemic effects: 0.38 mg/kg bw/day General population - Oral; Long term systemic effects: 0.38 mg/kg bw/day

PNEC - Fresh water; 0.00745 mg/l

Marine water; 0.000745 mg/lIntermittent release; 0.0745 mg/l

- STP; 12.9 mg/l

Sediment (Freshwater); 0.133 mg/kg sediment dwSediment (Marinewater); 0.0133 mg/kg sediment dw

- Soil; 0.0223 mg/kg soil dw

CINNAMYL ALCOHOL (CAS: 104-54-1)

DNEL Workers - Inhalation; Long term systemic effects: 2.277 mg/m³

Workers - Dermal; Long term systemic effects: 1.998 mg/kg bw/day General population - Inhalation; Long term systemic effects: 0.5665 mg/m³

General population - Dermal; Long term systemic effects: 0.4926 mg/kg bw/day

General population - Oral; Long term systemic effects: 3.995 mg/kg bw/day

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PNEC - Fresh water; 0.109 mg/l

Marine water; 0.0109 mg/lIntermittent release; 1.09 mg/l

- STP; 16.127 mg/l

Sediment (Freshwater); 220.188 mg/kg sediment dw
Sediment (Marinewater); 220.188 mg/kg sediment dw

- Soil; 0.185 mg/kg soil dw

Decanal (CAS: 112-31-2)

DNEL Workers - Inhalation; Long term systemic effects: 24.9 mg/m³

Workers - Dermal; Long term systemic effects: 7 mg/kg bw/day

General population - Inhalation; Long term systemic effects: 6.1 mg/m³ General population - Dermal; Long term systemic effects: 3.5 mg/kg bw/day General population - Oral; Long term systemic effects: 3.5 mg/kg bw/day

PNEC - Fresh water; 0.00117 mg/l

- Marine water; 0.000117 mg/l - Intermittent release; 0.0117 mg/l

- STP; 3.16 mg/l

Sediment (Freshwater); 0.0972 mg/kg sediment dw
Sediment (Marinewater); 0.00972 mg/kg sediment dw

- Soil; 0.0187 mg/kg soil dw

Octanal (CAS: 124-13-0)

DNEL Workers - Inhalation; Long term systemic effects: 1.3 mg/m³

Workers - Dermal; Long term systemic effects: 0.37 mg/kg bw/day General population - Inhalation; Long term systemic effects: 0.32 mg/m³ General population - Dermal; Long term systemic effects: 0.19 mg/kg bw/day General population - Oral; Long term systemic effects: 0.19 mg/kg bw/day

PNEC - Fresh water; 0.00154 mg/l

- Marine water; 0.000154 mg/l

- STP; 3.16 mg/l

Sediment (Freshwater); 0.07146 mg/kg sediment dw
Sediment (Marinewater); 0.00715 mg/kg sediment dw

- Soil; 0.01339 mg/kg soil dw

4-(2,6,-TRIMETHYLCYCLOHEX-1-ENE-1-YL)-BUT-3-ENE-2-ONE (CAS: 14901-07-6)

DNEL Workers - Inhalation; Long term systemic effects: 23.21 mg/m³

Workers - Dermal; Long term systemic effects: 13.17 mg/kg bw/day General population - Inhalation; Long term systemic effects: 5.72 mg/m³ General population - Dermal; Long term systemic effects: 6.58 mg/kg bw/day General population - Oral; Long term systemic effects: 3.29 mg/kg bw/day

PNEC - Fresh water; 0.004146 mg/l

Marine water; 0.0004146 mg/lIntermittent release; 0.04146 mg/l

- STP; 0.698 mg/l

Sediment (Freshwater); 63.23 mg/kg sediment dwSediment (Marinewater); 63.23 mg/kg sediment dw

- Soil; 29.47 mg/kg soil dw

PIN-2(10)-ENE (CAS: 127-91-3)

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DNEL Workers - Inhalation; Long term systemic effects: 5.98 mg/m³

Workers - Dermal; Short term local effects, Acute: 0.161 mg/cm²

General population - Inhalation; Long term systemic effects: 1.06 mg/m³ General population - Dermal; Short term local effects, Acute: 0.081 mg/cm² General population - Oral; Long term systemic effects: 0.31 mg/kg bw/day

PNEC - Fresh water; 0.002 mg/l

- Marine water; 0.0002 mg/l

- STP; 3.26 mg/l

Sediment (Freshwater); 0.485 mg/kg sediment dwSediment (Marinewater); 0.048 mg/kg sediment dw

- Soil; 0.49 mg/kg soil dw

BENZYL VIOLET 4B (CAS: 1694-09-3)

DNELNo DNEL available.PNECNo PNEC available.

ALPHA-PINENE (CAS: 80-56-8)

DNEL Workers - Inhalation; Long term systemic effects: 5.98 mg/m³

Workers - Dermal; Short term Acute: 0.161 mg/cm²

General population - Inhalation; Long term systemic effects: 1.06 mg/m³ General population - Dermal; Short term systemic effects, Acute: 0.081 mg/cm² General population - Oral; Long term systemic effects: 0.31 mg/kg bw/day

PNEC - Fresh water; 0.004 mg/l

- Marine water; 0.0004 mg/l

- STP; 3.26 mg/l

Sediment (Freshwater); 1.033 mg/kg sediment dwSediment (Marinewater); 0.103 mg/kg sediment dw

- Soil; 0.539 mg/kg soil dw

DELTA-DAMASCONE (CAS: 57378-68-4)

DNELNo DNEL available.PNECNo PNEC available.

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

TERPINOLENE (CAS: 586-62-9)

DNEL Workers - Inhalation; Long term systemic effects: 3.6 mg/m³

Workers - Dermal; Long term systemic effects: 0.52 mg/kg bw/day

Workers - Dermal; Long term local effects: 0.044 mg/cm²

General population - Inhalation; Long term systemic effects: 0.9 mg/m³

General population - Dermal, Oral; Long term systemic effects: 0.26 mg/kg bw/day

PNEC - Fresh water; 0.000634 mg/l

- Marine water; 0.0000634 mg/l - Intermittent release; 0.00634 mg/l

- STP; 0.2 mg/l

- Sediment (Freshwater); 0.147 mg/kg sediment dw

- Sediment (Marinewater); 0.0147 mg/l

- Soil; 0.0291 mg/l

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/lIntermittent release; 0.00199 mg/l

- STP; 0.17 mg/l

Sediment (Freshwater); 0.996 mg/lSediment (Marinewater); 0.00996 mg/l

- Soil; 0.04769 mg/l

8.2. Exposure controls

Protective equipment





Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Contact lenses should not be worn when working with this chemical. The following protection should be worn: Chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. In case of intensive contact, wear protective gloves (EN 374). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. protective gloves shall be replaced immediately when physically damaged or worn. Appropriate Material - Butyl, Material Thickness - 0.6 to 0.8mm, Breakthrough Time - 8Hrs

Other skin and body protection

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower. Use appropriate skin cream to prevent drying of skin. 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

Provide eyewash station. Wash promptly if skin becomes contaminated. Promptly remove non-impervious clothing that becomes contaminated. Do not eat, drink or smoke when using this product.

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Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respiratory

fitted with the following cartridge: Gas filter, type A2.

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

Appearance Clear liquid.

Colour Blue.

Odour Slight alcoholic. Perfume.

pH pH (concentrated solution): 6.5 - 8.5

Melting point Below minus 8°C

Initial boiling point and range ~90°C @ 760 mm Hg

Flash point 45°C Closed cup.

Relative density 0.975-0.985g/ml @ 20°C

Solubility(ies) Completely soluble in water. Very soluble in the following materials: Alcohols.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 110 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability No particular stability concerns. Stable at normal ambient temperatures and when used as

recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

products

Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with the following materials:

Acids. Oxidising agents.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

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ATE oral (mg/kg) 18,750.0

Acute toxicity - dermal

ATE dermal (mg/kg) 18,750.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 187.5

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 Gastrointestinal symptoms, including upset stomach.

Skin contact Repeated exposure may cause skin dryness or cracking.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness.

Pain.

Acute and chronic health

hazards

Not expected to be a health hazard when used under normal conditions.

Route of exposure Inhalation Skin absorption Ingestion. Skin and/or eye contact

Target organs Central nervous system Eyes Gastro-intestinal tract Kidneys Liver Respiratory system, lungs

Blood

Medical symptoms Irritation of eyes and mucous membranes. Central nervous system depression. Drowsiness,

dizziness, disorientation, vertigo. Visual disturbances, including blurred vision.

Toxicological information on ingredients.

METHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,628.0

Species Rat

Notes (oral LD₅₀) Toxic if swallowed.

ATE oral (mg/kg) 300.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 15,800.0

mg/kg)

Species Rabbit

Notes (dermal LD₅o) Toxic in contact with skin.

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

83.2

Species Rat

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Notes (inhalation LC₅₀) Toxic if inhaled.

ATE inhalation (vapours

mg/l)

3.0

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye

Not irritating.

damage/irritation

Respiratory sensitisation

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

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitroThis substance has no evidence of mutagenic properties. Negative.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity -

Fertility: - NOAEC 1.3 mg/l, , Rat Based on available data the classification criteria

fertility are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Causes damage to organs .

Target organs Central nervous system Optic Nerve (Nervus Opticus)

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation Toxic by inhalation. Possible effects include headache, dizziness, cramp, nausea,

vomiting, blindness, unconsciousness and death. Danger of very serious irriversible

effects.

Ingestion Toxic if swallowed. Possible effects include headache, dizziness, nausea, vomiting,

cramp, blindness, unconsciousness and death. There is danger of very serious and $% \left(1\right) =\left(1\right) \left(1\right)$

irriversible effects if swallawed.

Skin contact Toxic in contact with skin. Danger of serious irreversible effects.

2-BUTOXYETHANOL

Acute toxicity - oral

Acute toxicity oral (LD50

1,414.0

mg/kg)

Species Guinea pig

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ATE oral (mg/kg) 1,414.0

Acute toxicity - dermal

ATE dermal (mg/kg) 2,000.0

Acute toxicity - inhalation

ATE inhalation (vapours

11.0

mg/l)

Skin corrosion/irritation

Extreme pH Slightly irritating. Rabbit

Serious eye damage/irritation

Serious eye

Slightly irritating. Rabbit

damage/irritation

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 Negative.

Genotoxicity - in vivo Negative.

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.

Reproductive toxicity -

development

No evidence of reproductive toxicity in animal studies.

Inhalation Entry into the lungs following ingestion or vomiting may cause chemical

pneumonitis.

Ingestion Harmful: may cause lung damage if swallowed. Pneumonia may be the result if

vomited material containing solvents reaches the lungs.

Skin contact Repeated exposure may cause skin dryness or cracking.

Eye contact Irritation of eyes and mucous membranes.

Route of exposure Ingestion Inhalation

Target organs Brain Respiratory system, lungs Mucous membranes

Medical symptoms Skin irritation. Irritation of eyes and mucous membranes. High concentration of

vapours may irritate respiratory systemand lead to headache, fatigue, nausea and

vomiting.

SECTION 12: Ecological Information

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Ecotoxicity

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

METHANOL

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: > 10000 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 96 hours: ~ 22000 mg/l, Pseudokirchneriella subcapitata

2-BUTOXYETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1464 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 1800 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: 911 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 88 mg/l, Pseudokirchneriella subcapitata

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. The product is biodegradable but it must not be discharged into drains without permission from the authorities.

Ecological information on ingredients.

METHANOL

Biodegradation The substance is readily biodegradable.

2-BUTOXYETHANOL

Persistence and degradability

The product is readily biodegradable.

12.3. Bioaccumulative potential

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

Ecological information on ingredients.

METHANOL

Bioaccumulative potential Not potentially bioaccumulative

Partition coefficient : -0.77

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2-BUTOXYETHANOL

Partition coefficient log Pow: < 2: 0.8

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

METHANOL

Mobility The product is soluble in water. The product contains volatile organic compounds

(VOCs) which will evaporate easily from all surfaces.

2-BUTOXYETHANOL

Mobility The product is soluble in water.

Henry's law constant 0.0098 Pa m3/mol @ °C

12.5. Results of PBT and vPvB assessment

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

assessment

Ecological information on ingredients.

METHANOL

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

assessment

2-BUTOXYETHANOL

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

assessment

12.6. Other adverse effects

Ecological information on ingredients.

METHANOL

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site

in accordance with the requirements of the local Waste Disposal Authority. The packaging

must be empty (drop-free when inverted).

Disposal methods Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a

licensed waste disposal contractor. Containers should be thoroughly emptied before disposal

because of the risk of an explosion.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1993

UN No. (IMDG) 1993 UN No. (ICAO) 1993 UN No. (ADN) 1993

14.2. UN proper shipping name

Proper shipping name

FLAMMABLE LIQUID, N.O.S. (CONTAINS PROPAN-2-OL, METHANOL)

(ADR/RID)

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (CONTAINS PROPAN-2-OL, METHANOL)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (CONTAINS PROPAN-2-OL, METHANOL)

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. (CONTAINS PROPAN-2-OL, METHANOL)

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ADN packing group III
ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 3

Emergency Action Code •3Y

Hazard Identification Number

(ADR/RID)

Tunnel restriction code (D/E)

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

30

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 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 06/11/2018

Revision 8

Supersedes date 29/06/2018

SDS number 20529

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.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H370 Causes damage to organs (Central nervous system, Optic Nerve (Nervus Opticus)).

H400 Very toxic to aquatic life.

H410 Very toxic 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.