

# SAFETY DATA SHEET

## Quantum Screenwash Concentrate NF

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

#### 1.1. Product identifier

<b>Product name</b>	Quantum Screenwash Concentrate NF
<b>Product number</b>	ZGB00QSWC500NF, ZGB00QSWC01LNF, ZGB00QSWC05LNF
<b>Internal identification</b>	B18932, 18525, 18526, 18527

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

<b>Identified uses</b>	All purpose automotive windscreen cleaner
<b>Uses advised against</b>	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

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

#### 1.4. Emergency telephone number

<b>Emergency telephone</b>	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)

<b>Physical hazards</b>	Flam. Liq. 3 - H226
<b>Health hazards</b>	Eye Irrit. 2 - H319
<b>Environmental hazards</b>	Not Classified

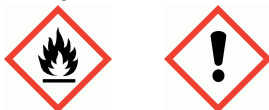
**Human health** Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.

**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.  
H319 Causes serious eye irritation.

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<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground and bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use non-sparking tools.</p> <p>P243 Take action to prevent static discharges.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> <p>P102 Keep out of reach of children.</p>
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**Detergent labelling** < 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

<b>ETHANOL</b>	<b>10-30%</b>
CAS number: 64-17-5	EC number: 200-578-6
	REACH registration number: 01-2119457610-43-XXXX
<b>Classification</b>	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
<b>ETHANEDIOL</b>	<b>1-5%</b>
CAS number: 107-21-1	EC number: 203-473-3
	REACH registration number: 01-2119456816-28-XXXX
<b>Classification</b>	
Acute Tox. 4 - H302	
STOT RE 2 - H373	

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<b>METHANOL</b> <span style="float: right;"><b>&lt;0.6%</b></span>		
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370		
<b>PROPYLENE GLYCOL</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 57-55-6	EC number: 200-338-0	REACH registration number: 01-2119456809-23-XXXX
<b>Classification</b> Not Classified		
<b>2,6-DIMETHYL-7-OCTEN-2-OL</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 18479-58-8	EC number: 242-362-4	REACH registration number: 01-2119457274-37-XXXX
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		
<b>SODIUM HYDROXIDE</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27-XXXX
<b>Classification</b> Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318		
<b>PIN-2(10)-ENE</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 127-91-3	EC number: 204-872-5	
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Asp. Tox. 1 - H304		

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<b>TERPINOLENE</b>	<b>&lt;1%</b>	
CAS number: 586-62-9	EC number: 209-578-0	
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b>		
Skin Sens. 1B - H317		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
<b>ALPHA-PINENE</b>	<b>&lt;1%</b>	
CAS number: 80-56-8	EC number: 201-291-9	
M factor (Acute) = 1		
<b>Classification</b>		
Flam. Liq. 3 - H226		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
<b>BUTYLATED HYDROXYTOLUENE</b>	<b>&lt;1%</b>	
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	
<b>Classification</b>		
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

<b>General information</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin contact</b>	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 (CO<sub>2</sub>). 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

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**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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place. Store under well-ventilated 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/m<sup>3</sup>

#### ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 52 mg/m<sup>3</sup> 20 ppm

Short-term exposure limit (15-minute): WEL 104 mg/m<sup>3</sup> 40 ppm vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> particulate

#### METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): 2006/15/EC 200 ppm 260 mg/m<sup>3</sup>

Sk

#### PROPYLENE GLYCOL

Long-term exposure limit (8-hour TWA): WEL 474 mg/m<sup>3</sup> 150 ppm particulate vapour

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> particulate

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

No exposure limit value known.

#### SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

#### 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/m<sup>3</sup>

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/m<sup>3</sup>  
 Workers - Inhalation; Short term Acute, local effects: 1900 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term Acute, local effects: 950 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 206 mg/kg  
 Consumer - Inhalation; Long term systemic effects: 114 mg/m<sup>3</sup>  
 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 dw  
 - Sediment (Marinewater); 2.9 mg/kg sediment dw  
 - Soil; 0.63 mg/kg soil dw

### ETHANEDIOL (CAS: 107-21-1)

#### DNEL

Industry - Dermal; Long term systemic effects: 106 mg/kg bw/day  
 Industry - Inhalation; Long term local effects: 35 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 53 mg/kg bw/day  
 Consumer - Inhalation; Long term local effects: 7 mg/m<sup>3</sup>

#### PNEC

- Fresh water; 10 mg/l  
 - Marine water; 1 mg/l  
 - Sediment (Freshwater); 37 mg/kg sediment dw  
 - Intermittent release; 10 mg/l  
 - Soil; 1.53 mg/kg  
 - STP; 199.5 mg/l  
 - Sediment (Marinewater); 3.7 mg/kg sediment dw  
 - Soil; 1.53 mg/kg soil dw

### METHANOL (CAS: 67-56-1)

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**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/m<sup>3</sup>  
 Industry - Inhalation; Long term systemic effects: 260 mg/m<sup>3</sup>  
 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/m<sup>3</sup>  
 Industry - Inhalation; Short term Acute: 260 mg/m<sup>3</sup>  
 Industry - Inhalation; Long term local effects: 260 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term Acute: 50 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term local effects: 50 mg/m<sup>3</sup>

**PNEC**

- Fresh water; 20.8 mg/l
- Marine water; 2.08 mg/l
- Soil; 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

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

**DNEL** No DNEL available.

**PNEC** No PNEC available.

### PROPYLENE GLYCOL (CAS: 57-55-6)

**DNEL**

Industry - Inhalation; Long term systemic effects: 168 mg/m<sup>3</sup>  
 Industry - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term systemic effects: 50 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>

**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

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

**DNEL**

Workers - Inhalation; Long term systemic effects: 73.5 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 20.8 mg/kg bw/day  
 General population - Inhalation; Long term systemic effects: 21.7 mg/m<sup>3</sup>  
 General population - Dermal, Oral; Long term systemic effects: 12.5 mg/kg bw/day

**PNEC**

- Fresh water; 0.0278 mg/l
- Marine water; 0.00278 mg/l
- Intermittent release; 0.278 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 0.594 mg/kg sediment dw
- Sediment (Marinewater); 0.0594 mg/kg sediment dw
- Soil; 0.103 mg/kg soil dw



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

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 2.8 mg/m <sup>3</sup>
	Workers - Inhalation; Short term Acute: 16.5 mg/m <sup>3</sup>
	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 <sup>2</sup>
	Workers - Dermal; Short term Acute: 15 mg/cm <sup>2</sup>
	General population - Inhalation; Long term systemic effects: 0.7 mg/m <sup>3</sup>
	General population - Inhalation; Short term Acute: 4.1 mg/m <sup>3</sup>
	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 <sup>2</sup>
	General population - Dermal; Short term Acute: 15 mg/cm <sup>2</sup>
	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

<b>PNEC</b>	- 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

### SODIUM HYDROXIDE (CAS: 1310-73-2)

<b>DNEL</b>	Consumer - Inhalation; local effects: 1 mg/m <sup>3</sup>
	Industry - Inhalation; Long term local effects: 1 mg/m <sup>3</sup>

### CITRAL (CAS: 5392-40-5)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 9 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 1.7 mg/kg bw/day
	Workers - Dermal; Long term local effects: 0.14 mg/cm <sup>2</sup>
	General population - Inhalation; Long term systemic effects: 2.7 mg/m <sup>3</sup>
	General population - Dermal; Long term systemic effects: 1 mg/kg bw/day
	General population - Dermal; Long term local effects: 0.14 mg/cm <sup>2</sup>
<b>PNEC</b>	General population - Oral; Long term systemic effects: 0.6 mg/kg bw/day
	- 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)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 33.3 mg/m <sup>3</sup>
	Workers - Dermal; Short term local effects, Acute: 0.222 mg/cm <sup>2</sup>
	General population - Inhalation; Long term systemic effects: 8.33 mg/m <sup>3</sup>
	General population - Dermal; Short term local effects, Acute: 0.111 mg/cm <sup>2</sup>
	General population - Oral; Long term systemic effects: 4.76 mg/kg bw/day

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- 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

### GERANIOL (CAS: 106-24-1)

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

### BUTYLPHENYL METHYLPROPIONAL (CAS: 80-54-6)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 0.201 mg/m<sup>3</sup>
  - Workers - Dermal; Long term systemic effects: 0.0569 mg/kg bw/day
  - Workers - Dermal; Long term local effects: 0.41 mg/cm<sup>2</sup>
  - Workers - Dermal; Short term Acute: 0.41 mg/cm<sup>2</sup>
  - General population - Inhalation; Long term systemic effects: 0.0593 mg/m<sup>3</sup>
  - General population - Inhalation; Long term local effects: 0.0593 mg/m<sup>3</sup>
  - General population - Dermal; Long term systemic effects: 0.0342 mg/kg bw/day
  - General population - Dermal; Short term Acute: 0.205 mg/cm<sup>2</sup>
  - General population - Dermal; Long term local effects: 0.41 mg/cm<sup>2</sup>
  - 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/kg
  - Sediment (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/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term Acute: 10 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 327.4 mg/kg bw/day  
 General population - Inhalation; Long term systemic effects: 47.8 mg/m<sup>3</sup>  
 General population - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>  
 General population - Inhalation; Short term Acute: 10 mg/m<sup>3</sup>  
 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<sup>2</sup>  
 Workers - Dermal; Short term Acute, local effects: 2.950 mg/cm<sup>2</sup>  
 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

### Nerol (CAS: 106-25-2)

**DNEL**

Workers - Inhalation; Long term systemic effects: 5.4 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 0.76 mg/kg bw/day  
 Workers - Dermal; Long term local effects: 0.133 mg/cm<sup>2</sup>  
 General population - Inhalation; Long term systemic effects: 1.3 mg/m<sup>3</sup>  
 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/l
- Intermittent release; 0.0745 mg/l
- STP; 12.9 mg/l
- Sediment (Freshwater); 0.133 mg/kg sediment dw
- Sediment (Marinewater); 0.0133 mg/kg sediment dw
- Soil; 0.0223 mg/kg soil dw

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

**DNEL** No DNEL available.

**PNEC** No PNEC available.

### CINNAMYL ALCOHOL (CAS: 104-54-1)

**DNEL**

Workers - Inhalation; Long term systemic effects: 2.277 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 1.998 mg/kg bw/day  
 General population - Inhalation; Long term systemic effects: 0.5665 mg/m<sup>3</sup>  
 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

## Quantum Screenwash Concentrate NF

- PNEC**
- Fresh water; 0.109 mg/l
  - Marine water; 0.0109 mg/l
  - Intermittent 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/m<sup>3</sup>
  - Workers - Dermal; Long term systemic effects: 7 mg/kg bw/day
  - General population - Inhalation; Long term systemic effects: 6.1 mg/m<sup>3</sup>
  - 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/m<sup>3</sup>
  - Workers - Dermal; Long term systemic effects: 0.37 mg/kg bw/day
  - General population - Inhalation; Long term systemic effects: 0.32 mg/m<sup>3</sup>
  - 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/m<sup>3</sup>
  - Workers - Dermal; Long term systemic effects: 13.17 mg/kg bw/day
  - General population - Inhalation; Long term systemic effects: 5.72 mg/m<sup>3</sup>
  - 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/l
  - Intermittent release; 0.04146 mg/l
  - STP; 0.698 mg/l
  - Sediment (Freshwater); 63.23 mg/kg sediment dw
  - Sediment (Marinewater); 63.23 mg/kg sediment dw
  - Soil; 29.47 mg/kg soil dw

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

## Quantum Screenwash Concentrate NF

**DNEL**

Workers - Inhalation; Long term systemic effects: 5.98 mg/m<sup>3</sup>  
 Workers - Dermal; Short term local effects, Acute: 0.161 mg/cm<sup>2</sup>  
 General population - Inhalation; Long term systemic effects: 1.06 mg/m<sup>3</sup>  
 General population - Dermal; Short term local effects, Acute: 0.081 mg/cm<sup>2</sup>  
 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 dw
- Sediment (Marinewater); 0.048 mg/kg sediment dw
- Soil; 0.49 mg/kg soil dw

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

**DNEL**

Workers - Inhalation; Long term systemic effects: 5.98 mg/m<sup>3</sup>  
 Workers - Dermal; Short term Acute: 0.161 mg/cm<sup>2</sup>  
 General population - Inhalation; Long term systemic effects: 1.06 mg/m<sup>3</sup>  
 General population - Dermal; Short term systemic effects, Acute: 0.081 mg/cm<sup>2</sup>  
 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 dw
- Sediment (Marinewater); 0.103 mg/kg sediment dw
- Soil; 0.539 mg/kg soil dw

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

**DNEL** No DNEL available.

**PNEC** No PNEC available.

### MYRCENE (CAS: 123-35-3)

**DNEL**

Workers - Inhalation; Long term systemic effects: 5.83 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 0.83 mg/kg bw/day  
 General population - Inhalation; Long term systemic effects: 1.25 mg/m<sup>3</sup>  
 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/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 0.52 mg/kg bw/day  
 Workers - Dermal; Long term local effects: 0.044 mg/cm<sup>2</sup>  
 General population - Inhalation; Long term systemic effects: 0.9 mg/m<sup>3</sup>  
 General population - Dermal, Oral; Long term systemic effects: 0.26 mg/kg bw/day

## Quantum Screenwash Concentrate NF

<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 0.000634 mg/l</li> <li>- Marine water; 0.0000634 mg/l</li> <li>- Intermittent release; 0.00634 mg/l</li> <li>- STP; 0.2 mg/l</li> <li>- Sediment (Freshwater); 0.147 mg/kg sediment dw</li> <li>- Sediment (Marinewater); 0.0147 mg/l</li> <li>- Soil; 0.0291 mg/l</li> </ul>
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### BUTYLATED HYDROXYTOLUENE (CAS: 128-37-0)

<b>DNEL</b>	<p>Workers - Inhalation; Long term systemic effects: 3.5 mg/m<sup>3</sup></p> <p>Workers - Dermal; Long term systemic effects: 0.5 mg/kg bw/day</p> <p>General population - Inhalation; Long term systemic effects: 0.86 mg/m<sup>3</sup></p> <p>General population - Dermal, Oral; Long term systemic effects: 0.25 mg/kg bw/day</p>
<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 0.000199 mg/l</li> <li>- Marine water; 0.0000199 mg/l</li> <li>- Intermittent release; 0.00199 mg/l</li> <li>- STP; 0.17 mg/l</li> <li>- Sediment (Freshwater); 0.996 mg/l</li> <li>- Sediment (Marinewater); 0.00996 mg/l</li> <li>- Soil; 0.04769 mg/l</li> </ul>

## 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.

### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type A2.

## Quantum Screenwash Concentrate NF

**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

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Blue.
<b>Odour</b>	Perfume. Slight alcoholic.
<b>pH</b>	pH (concentrated solution): 6.50 - 8.50
<b>Melting point</b>	Below minus 16°C
<b>Initial boiling point and range</b>	~90°C @ 760 mm Hg
<b>Flash point</b>	38.0°C Closed cup.
<b>Relative density</b>	0.975-0.985g/ml @ 20°C
<b>Solubility(ies)</b>	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 170.0 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** 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 products** 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

**ATE oral (mg/kg)** 14,492.75

##### Acute toxicity - dermal

## Quantum Screenwash Concentrate NF

**ATE dermal (mg/kg)** 114,942.53

### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 1,149.43

<b>General information</b>	To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.
<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
<b>Ingestion</b>	Gastrointestinal symptoms, including upset stomach.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.
<b>Acute and chronic health hazards</b>	Not expected to be a health hazard when used under normal conditions.
<b>Route of exposure</b>	Inhalation Skin absorption Ingestion. Skin and/or eye contact
<b>Target organs</b>	Central nervous system Eyes Gastro-intestinal tract Kidneys Liver Respiratory system, lungs Blood
<b>Medical symptoms</b>	Irritation of eyes and mucous membranes. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Visual disturbances, including blurred vision.

### Toxicological information on ingredients.

#### ETHANOL

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 7,060.0

**Species** Rat

**ATE oral (mg/kg)** 7,060.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,001.0

**Species** Rabbit

**ATE dermal (mg/kg)** 2,001.0

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 124.7

**Species** Rat

**ATE inhalation (vapours mg/l)** 124.7

##### Skin corrosion/irritation

**Animal data** Not irritating.



## Quantum Screenwash Concentrate NF

### Serious eye damage/irritation

**Serious eye damage/irritation** Irritating to eyes: Category 2.

### Skin sensitisation

**Skin sensitisation** Not sensitising.

### Germ cell mutagenicity

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

**Genotoxicity - in vivo** 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** Data lacking.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Data lacking.

### Aspiration hazard

**Aspiration hazard** No data available.

**Ingestion** After absorption: euphoria. After a latency period: dizziness, inebriation, paralysis, cyanosis, narcosis, respiratory paralysis.

## ETHANEDIOL

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 7,712.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** Acute oral toxicity is expected to be moderate in humans eventhough animals test results would suggest a low toxicity. Ingestion of approximately 100ml has caused death in humans. Ingestion may cause nausea, vomiting, abdominal discomfort or diarrhea. Excessive exposure may cause central nervous system effects, cardiopulmonary effects and kidney failure.

**ATE oral (mg/kg)** 500.0

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 3,501.0

**Species** Mouse

**ATE dermal (mg/kg)** 3,501.0

### Acute toxicity - inhalation

## Quantum Screenwash Concentrate NF

<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	2.6
<b>Species</b>	Rat
<b>Notes (inhalation LC<sub>50</sub>)</b>	At room temperature exposure to vapour is minimal due to low volatility. With good ventilation single exposure is not expected to cause adverse effect. If the product is heated or the working area has poor ventilation, vapour/mist may accumulate and cause respiratory irritation and symptoms such as headache and nausea.
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Not irritating. Rabbit
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not irritating. Rabbit
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Guinea pig: Not sensitising.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	- Guinea pig: Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Negative.
<b>Genotoxicity - in vivo</b>	Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	The current toxicological knowledge allows to not classify the product as a carcinogen.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Ingestion of large amounts has been shown to interfere with reproduction in animals.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Observations in humans include: Nystagmus (involuntary eye movement). In animals effects have been reported on the following organs: kidneys and liver. NOAEL 150 mg/kg/day, Oral, Rat
<b>Target organs</b>	Kidneys
<b><u>Inhalation</u></b>	
<b>Inhalation</b>	At room temperature, exposure to vapor is minimal due to low volatility. With good ventilation, single exposure is not expected to cause adverse effects. If material is heated or areas are poorly ventilated, vapor/mist may accumulate and cause respiratory irritation and symptoms such as headache and nausea.
<b><u>Ingestion</u></b>	
<b>Ingestion</b>	Oral toxicity is expected to be moderate in humans due to ethylene glycol even though tests with animals show a lower degree of toxicity. Ingestion of quantities (approximately 65 mL (2 oz.) for diethylene glycol or 100 mL (3 oz.) for ethylene glycol) has caused death in humans. May cause nausea and vomiting. May cause abdominal discomfort or diarrhea. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure. For Ethylene glycol: Lethal Dose, Human, adult 100 ml LD50, rat, male and female 7,712 mg/kg.

## Quantum Screenwash Concentrate NF

<b>Skin contact</b>	Prolonged skin contact is unlikely to result in absorption of harmful amounts. Repeated skin exposure to large quantities may result in absorption of harmful amounts. Massive contact with damaged skin or of material sufficiently hot to burn skin may result in absorption of potentially lethal amounts.
<b>Eye contact</b>	May cause temporary eye irritation.
<b>Route of exposure</b>	Ingestion.
<b>Target organs</b>	Kidneys Liver

### METHANOL

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,628.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** Toxic if swallowed.

**ATE oral (mg/kg)** 300.0

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 15,800.0

**Species** Rabbit

**Notes (dermal LD<sub>50</sub>)** Toxic in contact with skin.

**ATE dermal (mg/kg)** 300.0

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 83.2

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** Toxic if inhaled.

**ATE inhalation (vapours mg/l)** 3.0

#### Skin corrosion/irritation

**Animal data** Not irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating.

#### 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 vitro** This substance has no evidence of mutagenic properties. Negative.

## Quantum Screenwash Concentrate NF

### Carcinogenicity

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

### Reproductive toxicity

**Reproductive toxicity - fertility** Fertility: - NOAEC 1.3 mg/l, , Rat Based on available data the classification criteria 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 irreversible effects.

### **Ingestion**

Toxic if swallowed. Possible effects include headache, dizziness, nausea, vomiting, cramp, blindness, unconsciousness and death. There is danger of very serious and irreversible effects if swallowed.

### **Skin contact**

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

## SECTION 12: Ecological Information

### **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.

#### ETHANOL

##### Acute aquatic toxicity

**Acute toxicity - fish** LC50, 96 hours: 15300 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 9268 - 14221 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** LOEC, 192 hours: 5000 mg/l, Scenedesmus subspicatus

**Acute toxicity - microorganisms** LOEC, : 6500 (16hr) mg/l,

#### ETHANEDIOL

**Toxicity** Product not classified as dangerous to aquatic organisms.

##### Acute aquatic toxicity

**Acute toxicity - fish** LC50, 96 hours: 72860 mg/l, Pimephales promelas (Fat-head Minnow)

## Quantum Screenwash Concentrate NF

<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: > 100 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 6500 - 13000 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	EC20, 30 minutes: > 1995 mg/l, Activated sludge
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - fish early life stage</b>	NOEC, 7 days: 15380 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 7 days: 8590 mg/l, Ceriodaphnia Sp.

### METHANOL

<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: > 10000 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: ~ 22000 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.

#### ETHANOL

**Persistence and degradability** The product is biodegradable.

#### ETHANEDIOL

**Persistence and degradability** The product is biodegradable.

**Biodegradation** Water - Degradation (%) 90 - 100%: 10 days  
Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% biodegradation in OECD test(s) for inherent biodegradability).

#### METHANOL

**Biodegradation** The substance is readily biodegradable.

### 12.3. Bioaccumulative potential

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

## Quantum Screenwash Concentrate NF

### Ecological information on ingredients.

#### ETHANOL

**Partition coefficient** log Pow: < 2

#### ETHANEDIOL

**Bioaccumulative potential** Not potentially bioaccumulative

**Partition coefficient** log Pow: -1.36

#### METHANOL

**Bioaccumulative potential** Not potentially bioaccumulative

**Partition coefficient** : -0.77

### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

### Ecological information on ingredients.

#### ETHANEDIOL

**Mobility** The product is soluble in water. 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: ~ 1 @ °C

**Henry's law constant** ~ 8.05E-09 atm m<sup>3</sup>/mol @ 25°C

#### METHANOL

**Mobility** The product is soluble in water. The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### 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.

#### ETHANEDIOL

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

#### METHANOL

**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

### Ecological information on ingredients.

#### METHANOL

## Quantum Screenwash Concentrate NF

**Other adverse effects** Do not allow material to contaminate ground water system.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>General information</b>	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).
<b>Disposal methods</b>	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)	1987
UN No. (IMDG)	1987
UN No. (ICAO)	1987
UN No. (ADN)	1987

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ALCOHOLS, N.O.S. (CONTAINS ETHANOL)
Proper shipping name (IMDG)	ALCOHOLS, N.O.S. (CONTAINS ETHANOL)
Proper shipping name (ICAO)	ALCOHOLS, N.O.S. (CONTAINS ETHANOL)
Proper shipping name (ADN)	ALCOHOLS, N.O.S. (CONTAINS ETHANOL)

#### 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

## Quantum Screenwash Concentrate NF

### Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory information

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

<b>National regulations</b>	Control of Pollution (Special Waste) Regulations 1980 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	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).
<b>Guidance</b>	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

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Issued by</b>	HS&E Manager.
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## Quantum Screenwash Concentrate NF

### 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.  
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.  
H370 Causes damage to organs (Central nervous system, Optic Nerve (Nervus Opticus)).  
H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.  
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.