

SAFETY DATA SHEET

Quantum Wash & Wax

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

1.1. Product identifier

Product name	Quantum Wash & Wax
Product number	ZGBWASHAWAX5L, ZGBWASHAWAX25L, ZGBWASHAWAX1L
Internal identification	B20912, 30050, 30051, 30061

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

Identified uses	Wax for car care.
Uses advised against	This product is not recommended for any industrial, professional or consumer use other than the identified uses stated above.

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

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

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Eye Irrit. 2 - H319
Environmental hazards	Not Classified

2.2. Label elements

Pictogram



Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.
Precautionary statements	P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 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. P102 Keep out of reach of children.
Detergent labelling	< 5% amphoteric surfactants, < 5% anionic surfactants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% perfumes, Contains BENZISOTHIAZOLINONE

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2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

C9-11 ALCOHOL ETHOXYLATE 6.5MEO	1-5%
CAS number: 68439-46-3	
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318	
SODIUM LAURYL ETHER SULPHATE	1-5%
CAS number: 9004-82-4	
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	
SULPHURIC ACID, C12-14-ALKYL (EVEN NUMBERED) ESTERS, SODIUM SALTS.	1-5%
CAS number: 85586-07-8 EC number: 287-809-4 REACH registration number: 01-2119489463-28-XXXX	
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	
POLYETHER MODIFIED TRISILOXANE	<1%
CAS number: 134180-76-0	
Classification Acute Tox. 4 - H312 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 Aquatic Chronic 2 - H411	
ALKYL IMIDAZOLINE BETAINE	<1%
CAS number: 68334-21-4 EC number: 269-819-0	
Classification Eye Irrit. 2 - H319	

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DISODIUM COCOAMPHODIACETATE <1%		
CAS number: 68650-39-5	EC number: 931-291-0	REACH registration number: 01-2119487973-19-XXXX
Classification Eye Dam. 1 - H318		
PROPYLENE GLYCOL <1%		
CAS number: 57-55-6	EC number: 200-338-0	REACH registration number: 01-2119456809-23-XXXX
Classification Not Classified		
SODIUM HYDROXIDE <1%		
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27-XXXX
Classification Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318		
BENZALDEHYDE <1%		
CAS number: 100-52-7	EC number: 202-860-4	REACH registration number: 01-2119455540-44-XXXX
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 STOT SE 3 - H335		
ALCOHOLS, C11-15 SECONDARY ETHOXYLATED. <1%		
CAS number: 68131-40-8		
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318		

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SODIUM CHLOROACETATE <1%		
CAS number: 3926-62-3	EC number: 223-498-3	
M factor (Acute) = 10		
Classification Acute Tox. 3 - H301 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Acute 1 - H400		
SODIUM METABISULPHITE <1%		
CAS number: 7681-57-4	EC number: 231-673-0	REACH registration number: 01-2119531326-45-XXXX
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318		
POTASSIUM HYDROXIDE <1%		
CAS number: 1310-58-3	EC number: 215-181-3	REACH registration number: 01-2119487136-33-XXXX
Classification Met. Corr. 1 - H290 Acute Tox. 4 - H302 Skin Corr. 1A - H314 Eye Dam. 1 - H318		
GLYOXAL...% <1%		
CAS number: 107-22-2	EC number: 203-474-9	
Classification Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Muta. 2 - H341		
ETHYL ACETATE <1%		
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-2119475103-46-XXXX
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		

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Heliotropine <1%		
CAS number: 120-57-0	EC number: 204-409-7	
Classification Skin Sens. 1B - H317		
POLY(ETHYLENE GLYCOL) <1%		
CAS number: 25322-68-3	EC number: 500-038-2	
Classification STOT SE 3 - H335		
UNDECA-1,4-LACTONE <1%		
CAS number: 104-67-6	EC number: 203-225-4	
Classification Aquatic Chronic 3 - H412		
BUTYLATED HYDROXYTOLUENE <1%		
CAS number: 128-37-0	EC number: 204-881-4	REACH registration number: 01-2119565113-46-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
Ethyl methylphenylglycidate <1%		
CAS number: 77-83-8	EC number: 201-061-8	
Classification Skin Sens. 1B - H317 Aquatic Chronic 2 - H411		

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

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Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation This is unlikely to occur but symptoms similar to those of ingestion may develop. Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

Eye contact Irritation and redness, followed by blurred vision. May cause severe eye irritation.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Irritating gases or vapours.

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

5.3. Advice for firefighters

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

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Environmental precautions Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid freezing. Keep only in the original container.

Storage class Chemical storage.

7.3. Specific end use(s)

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

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM LAURYL ETHER SULPHATE

No exposure limit value known.

SULPHURIC ACID, C12-14-ALKYL (EVEN NUMBERED) ESTERS, SODIUM SALTS.

No exposure limit value known.

POLYETHER MODIFIED TRISILOXANE

No exposure limit value known.

ALKYL IMIDAZOLINE BETAINE

No exposure limit value known.

DISODIUM COCOAMPHODIACETATE

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

BENZALDEHYDE

No exposure limit value known.

ALCOHOLS, C11-15 SECONDARY ETHOXYLATED.

No exposure limit value known.

SODIUM CHLOROACETATE

No exposure limit value known.

SODIUM METABISULPHITE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

POTASSIUM HYDROXIDE

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

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

GLYOXAL...%

Belgium - OEL - TWA: 0.1 mg/m³; Finland 0.02mg/m³

ETHYL ACETATE

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

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

Heliotropine

No exposure limit value known.

POLY(ETHYLENE GLYCOL)

No exposure limit value known.

UNDECA-1,4-LACTONE

No exposure limit value known.

BUTYLATED HYDROXYTOLUENE

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

Ethyl methylphenylglycidate

No exposure limit value known.

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

SODIUM LAURYL ETHER SULPHATE (CAS: 9004-82-4)

DNEL No DNEL available.

PNEC No PNEC available.

SULPHURIC ACID, C12-14-ALKYL (EVEN NUMBERED) ESTERS, SODIUM SALTS. (CAS: 85586-07-8)

DNEL Workers - Inhalation; Long term systemic effects: 285 mg/m³
 Workers - Dermal; Long term systemic effects: 4060 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 85 mg/m³
 General population - Dermal; Long term systemic effects: 2440 mg/kg bw/day
 General population - Oral; Long term systemic effects: 24 mg/kg bw/day

PNEC - Fresh water; 0.102 mg/l
 - Marine water; 0.01 mg/l
 - Intermittent release; 0.036 mg/l
 - STP; 1084 mg/l
 - Sediment (Freshwater); 3.58 mg/kg sediment dw
 - Sediment (Marinewater); 0.358 mg/kg sediment dw
 - Soil; 0.654 mg/kg soil dw

XANTHAN GUM (CAS: 11138-66-2)

DNEL No DNEL available.

PNEC No PNEC available.

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

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

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

POLYETHER MODIFIED TRISILOXANE (CAS: 134180-76-0)

DNEL No DNEL available.

PNEC No PNEC available.

ALKYL IMIDAZOLINE BETAINE (CAS: 68334-21-4)

DNEL No DNEL available.

PNEC No PNEC available.

DISODIUM COCOAMPHODIACETATE (CAS: 68650-39-5)

DNEL Workers - Inhalation; Long term systemic effects: 4.5 mg/m³
 Workers - Dermal; Long term systemic effects: 6.42 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 4.06 mg/m³
 General population - Dermal; Long term systemic effects: 3.85 mg/kg bw/day
 General population - Oral; Long term systemic effects: 0.39 mg/kg bw/day

PNEC - Fresh water; 0.0053 mg/l
 - Marine water; 0.00053 mg/l
 - Intermittent release; 0.053 mg/l
 - STP; 6.6 mg/l
 - Sediment (Freshwater); 0.0208 mg/kg sediment dw
 - Sediment (Marinewater); 0.00208 mg/kg sediment dw
 - Soil; 0.00104 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

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

SODIUM HYDROXIDE (CAS: 1310-73-2)

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

BENZALDEHYDE (CAS: 100-52-7)

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

PNEC

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

ALCOHOLS, C11-15 SECONDARY ETHOXYLATED. (CAS: 68131-40-8)

DNEL No DNEL available.

PNEC No PNEC available.

SODIUM CHLOROACETATE (CAS: 3926-62-3)

DNEL Workers - Inhalation; Long term systemic effects: 0.061 mg/m³
Workers - Dermal; Long term systemic effects: 0.017 mg/kg bw/day
Workers - Dermal; Short term Acute: 40 mg/kg bw/day

PNEC

- Fresh water; 0.00071 mg/l
- Marine water; 0.000071 mg/l
- STP; 0.15 mg/l
- Sediment (Freshwater); 0.0026 mg/kg sediment dw
- Sediment (Marinewater); 0.00026 mg/kg sediment dw
- Soil; 0.00394 mg/kg soil dw

TRISODIUM NITRILOTRIACETATE (CAS: 5064-31-3)

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

PNEC

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

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POTASSIUM HYDROXIDE (CAS: 1310-58-3)

DNEL Workers, General population - Inhalation; Long term local effects: 1 mg/m³

SODIUM METABISULPHITE (CAS: 7681-57-4)

DNEL Workers - Inhalation; Long term systemic effects: 225 mg/m³
 General population - Inhalation; Long term systemic effects: 66 mg/m³
 General population - Oral; Long term systemic effects: 8.6 mg/kg bw/day

PNEC - Fresh water; 1 mg/l
 - Marine water; 0.1 mg/l
 - STP; 75.4 mg/l

GLYOXAL...% (CAS: 107-22-2)

DNEL Workers - Inhalation; Long term systemic effects: 5.29 mg/m³
 Workers - Inhalation; Long term local effects: 0.04 mg/m³
 Workers - Dermal; Long term systemic effects: 10.8 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 1.3 mg/m³
 General population - Inhalation; Long term local effects: 0.01 mg/m³
 General population - Dermal; Long term systemic effects: 5.4 mg/kg bw/day
 General population - Oral; Long term systemic effects: 0.6 mg/kg bw/day

PNEC - Fresh water; 0.319 mg/l
 - Marine water; 0.0319 mg/l
 - Intermittent release; 1.1 mg/l
 - STP; 4.1 mg/l
 - Sediment (Freshwater); 0.685 mg/kg sediment dw
 - Sediment (Marinewater); 0.0685 mg/kg sediment dw
 - Soil; 4.06 mg/kg soil dw

ETHYL ACETATE (CAS: 141-78-6)

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

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

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

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

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

Heliotropine (CAS: 120-57-0)

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

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

POLY(ETHYLENE GLYCOL) (CAS: 25322-68-3)

DNEL Workers - Inhalation; Long term systemic effects: 0.4182 mg/m³
 Workers - Dermal; Long term systemic effects: 0.2372 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 0.1031 mg/m³
 General population - Dermal; Long term systemic effects: 0.1186 mg/kg bw/day
 General population - Oral; Long term systemic effects: 0.0593 mg/kg bw/day

PNEC - Fresh water; 0.188 mg/l
 - Marine water; 0.0188 mg/l
 - Intermittent release; 1.88 mg/l
 - STP; 72.92 mg/l
 - Sediment (Freshwater), Sediment (Marinewater); 188 mg/kg sediment dw
 - Soil; 52.264 mg/kg soil dw

CITRAL (CAS: 5392-40-5)

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

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

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

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

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

BUTYLATED HYDROXYTOLUENE (CAS: 128-37-0)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 3.5 mg/m³
 - Workers - Dermal; Long term systemic effects: 0.5 mg/kg bw/day
 - General population - Inhalation; Long term systemic effects: 0.86 mg/m³
 - General population - Dermal, Oral; Long term systemic effects: 0.25 mg/kg bw/day

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

Ethyl methylphenylglycidate (CAS: 77-83-8)

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

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

MYRCENE (CAS: 123-35-3)

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DNEL

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

PNEC

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

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

DNEL

Workers - Inhalation; Long term systemic effects: 2.8 mg/m³
 Workers - Inhalation; Short term Acute: 16.5 mg/m³
 Workers - Dermal; Long term systemic effects: 2.5 mg/kg bw/day
 Workers - Dermal; Short term Acute: 5 mg/kg bw/day
 Workers - Dermal; Long term local effects: 15 mg/cm²
 Workers - Dermal; Short term Acute: 15 mg/cm²
 General population - Inhalation; Long term systemic effects: 0.7 mg/m³
 General population - Inhalation; Short term Acute: 4.1 mg/m³
 General population - Dermal; Long term systemic effects: 1.25 mg/kg bw/day
 General population - Dermal; Short term Acute: 2.5 mg/kg bw/day
 General population - Dermal; Long term local effects: 15 mg/cm²
 General population - Dermal; Short term Acute: 15 mg/cm²
 General population - Oral; Long term systemic effects: 0.2 mg/kg bw/day
 General population - Oral; Short term Acute: 1.2 mg/kg bw/day

PNEC

- Fresh water; 0.2 mg/l
- Marine water; 0.02 mg/l
- Intermittent release; 2 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 2.22 mg/kg sediment dw
- Sediment (Marinewater); 0.222 mg/kg sediment dw
- Soil; 0.327 mg/kg soil dw

CITRONELLOL (CAS: 106-22-9)

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

Quantum Wash & Wax

PNEC	- Fresh water; 0.0024 mg/l
	- Marine water; 0.00024 mg/l
	- Intermittent release; 0.024 mg/l
	- STP; 580 mg/l
	- Sediment (Freshwater); 0.0256 mg/kg sediment dw
	- Sediment (Marinewater); 0.00256 mg/kg sediment dw
	- Soil; 0.00371 mg/kg soil dw

GERANIOL (CAS: 106-24-1)

DNEL	Workers - Inhalation; Long term systemic effects: 161.6 mg/m ³
	Workers - Dermal; Long term systemic effects: 12.5 mg/kg bw/day
	Workers - Dermal; Long term local effects: 11.8 mg/cm ²
	General population - Inhalation; Long term systemic effects: 47.8 mg/m ³
	General population - Dermal; Long term systemic effects: 7.5 mg/kg bw/day
	General population - Dermal; Long term local effects: 11.8 mg/cm ²
PNEC	General population - Oral; Long term systemic effects: 13.75 mg/kg bw/day
	- Fresh water; 0.0108 mg/l
	- Marine water; 0.00108 mg/l
	- Intermittent release; 0.108 mg/l
	- STP; 0.7 mg/l
	- Sediment (Freshwater); 0.115 mg/kg
	- Sediment (Marinewater); 0.0115 mg/kg
- Soil; 0.0167 mg/kg	

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

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

Hand protection

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

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

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured gel.
Colour	Yellow.
Odour	Cherry
pH	pH (diluted solution): ~10.5 10% dilution in water.
Initial boiling point and range	100°C @ 760 mm Hg
Flash point	The product is not flammable.
Relative density	~ 1.0g/ml @ 20°C
Solubility(ies)	Completely soluble in water.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

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

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

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

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

Materials to avoid	Strong alkalis. Strong acids.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide (CO). Carbon dioxide (CO ₂).
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 33,707.87

Serious eye damage/irritation

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

General information

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

Inhalation

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

Ingestion

May cause discomfort if swallowed.

Skin contact

Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

Eye contact

Irritating to eyes.

Acute and chronic health hazards

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

Route of exposure

Skin and/or eye contact

Target organs

Eyes Skin Respiratory system, lungs Gastro-intestinal tract

Medical symptoms

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

Toxicological information on ingredients.

C9-11 ALCOHOL ETHOXYLATE 6.5MEO

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,200.0

Species Rat

ATE oral (mg/kg) 1,200.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Data lacking.

Skin corrosion/irritation

Animal data Slightly irritating.

Serious eye damage/irritation

Serious eye damage/irritation May cause irreversible eye damage.

Respiratory sensitisation

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Respiratory sensitisation	Not sensitising.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Data lacking.
Genotoxicity - in vivo	Data lacking.
<u>Carcinogenicity</u>	
Carcinogenicity	Data lacking.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Data lacking.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Data lacking.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Data lacking.
<u>Aspiration hazard</u>	
Aspiration hazard	No data available.
.	
Inhalation	Irritation of nose, throat and airway.
Ingestion	May cause stomach pain or vomiting.
Skin contact	There may be mild irritation at the site of contact.
Eye contact	Risk of serious damage to eyes.

SODIUM LAURYL ETHER SULPHATE

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	1,600.0
Species	Rat
ATE oral (mg/kg)	1,600.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	2,001.0
Species	Rabbit
ATE dermal (mg/kg)	2,001.0
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Data lacking.
<u>Skin corrosion/irritation</u>	
Animal data	Irritating.

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Serious eye damage/irritation

Serious eye damage/irritation May cause irreversible eye damage.

Respiratory sensitisation

Respiratory sensitisation Data lacking.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Data lacking.

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.

SULPHURIC ACID, C12-14-ALKYL (EVEN NUMBERED) ESTERS, SODIUM SALTS.

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,800.0

Species Rat

ATE oral (mg/kg) 1,800.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Data lacking.

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Serious eye damage/irritation rabbit: Corrosive

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Respiratory sensitisation

Respiratory sensitisation Data lacking.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

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

Carcinogenicity

Carcinogenicity Data lacking.

Reproductive toxicity

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

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Aspiration hazard Not relevant.

SECTION 12: Ecological Information

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

12.1. Toxicity

Ecological information on ingredients.

C9-11 ALCOHOL ETHOXYLATE 6.5MEO

Acute aquatic toxicity

Acute toxicity - fish EC₅₀, 96 hours: 8.5 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 5.3 mg/l, Daphnia magna

SODIUM LAURYL ETHER SULPHATE

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 3.12 mg/l, Ceriodaphnia Sp.

SULPHURIC ACID, C12-14-ALKYL (EVEN NUMBERED) ESTERS, SODIUM SALTS.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96. hours: 3.6 mg/l, Oncorhynchus mykiss (Rainbow trout)
NOEC, 96 hours: 1.8 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 4.7 mg/l, Daphnia magna
NOEC, 48 hours: 2.5 mg/l, Daphnia magna

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Acute toxicity - aquatic plants

EC₅₀, Effect on growth., 72 hours: >20 mg/l, Scenedesmus subspicatus

12.2. Persistence and degradability

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

Ecological information on ingredients.

C9-11 ALCOHOL ETHOXYLATE 6.5MEO

Persistence and degradability

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

SODIUM LAURYL ETHER SULPHATE

Persistence and degradability

The substance is readily biodegradable.

SULPHURIC ACID, C12-14-ALKYL (EVEN NUMBERED) ESTERS, SODIUM SALTS.

Persistence and degradability

The substance is readily biodegradable.

12.3. Bioaccumulative potential

Ecological information on ingredients.

C9-11 ALCOHOL ETHOXYLATE 6.5MEO

Bioaccumulative potential

The product is not bioaccumulating.

SODIUM LAURYL ETHER SULPHATE

Bioaccumulative potential

Low potential.

SULPHURIC ACID, C12-14-ALKYL (EVEN NUMBERED) ESTERS, SODIUM SALTS.

Bioaccumulative potential

Not potentially bioaccumulative

Partition coefficient

log Pow: ≤ -2.42

12.4. Mobility in soil

Mobility

The product is soluble in water.

Ecological information on ingredients.

C9-11 ALCOHOL ETHOXYLATE 6.5MEO

Mobility

The product is soluble in water.

SODIUM LAURYL ETHER SULPHATE

Mobility

No data available.

SULPHURIC ACID, C12-14-ALKYL (EVEN NUMBERED) ESTERS, SODIUM SALTS.

Quantum Wash & Wax

Mobility Data lacking.

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.

C9-11 ALCOHOL ETHOXYLATE 6.5MEO

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

SODIUM LAURYL ETHER SULPHATE

Results of PBT and vPvB assessment This product is not identified as a PBT substance.

SULPHURIC ACID, C12-14-ALKYL (EVEN NUMBERED) ESTERS, SODIUM SALTS.

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

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The packaging must be empty (drop-free when inverted). 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.

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

SECTION 14: Transport information

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Quantum Wash & Wax

Not applicable.

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

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Issued by	HS&E Manager.
Revision date	29/06/2018
Revision	3
Supersedes date	23/11/2015
SDS number	20535
SDS status	Approved.

Quantum Wash & Wax

Hazard statements in full

H225 Highly flammable liquid and vapour.
H290 May be corrosive to metals.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
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.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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.