

**SAFETY DATA SHEET****QUANTUM DASH CLEANER****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name** QUANTUM DASH CLEANER  
**Product number** ZGBDASHCLEN05L, ZGBDASHCLEN750, ZGB DASH CLEAN SAM  
**Internal identification** B20952, 30057, 30065, 30068

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

**Identified uses** Car maintenance product. Automotive Polish  
**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:

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Not Classified

**Health hazards**

Asp. Tox. 1 - H304

**Environmental hazards**

Not Classified

**Classification (67/548/EEC or 1999/45/EC)**

Xn;R65.

**Human health**

The product contains small amounts of organic solvents. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**Environmental**

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

**Physicochemical**

When handled correctly, undamaged units represent no danger. Not considered to be a significant hazard due to the small quantities used.

**2.2. Label elements****Pictogram**

**QUANTUM DASH CLEANER**

<b>Signal word</b>	Danger
<b>Hazard statements</b>	H304 May be fatal if swallowed and enters airways.
<b>Precautionary statements</b>	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents/container in accordance with national regulations. P102 Keep out of reach of children.
<b>Supplemental label information</b>	RCH002a Restricted to professional users.
<b>Contains</b>	ISOPARAFFINIC SOLVENT, ALKANES C11-C15
<b>Detergent labelling</b>	5 - < 15% aliphatic hydrocarbons, < 5% perfumes, Contains BENZISOTHIAZOLINONE

**2.3. Other hazards****SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>ISOPARAFFINIC SOLVENT, ALKANES C11-C15</b> CAS number: 90622-58-5 EC number: 292-460-6	<b>10-30%</b>
<b>Classification</b> Asp. Tox. 1 - H304	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R65. R66.
<b>DIMETHICONE</b> CAS number: 63148-62-9 EC number: —	<b>5-10%</b>
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -
<b>BENZALDEHYDE</b> CAS number: 100-52-7 EC number: 202-860-4	<b>&lt;1%</b>
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 STOT SE 3 - H335	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R20/22. Xi;R36/37.
<b>PROPYLENE GLYCOL</b> CAS number: 57-55-6 EC number: 200-338-0 REACH registration number: 01-2119456809-23-XXXX	<b>&lt;1%</b>
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -

## QUANTUM DASH CLEANER

<b>ETHYL ACETATE</b>	<b>&lt;1%</b>
<b>CAS number:</b> 141-78-6 <b>EC number:</b> 205-500-4 <b>REACH registration number:</b> 01-2119475103-46-XXXX	
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Xi;R36 R66 R67
<b>SODIUM HYDROXIDE</b>	<b>&lt;1%</b>
<b>CAS number:</b> 1310-73-2 <b>EC number:</b> 215-185-5 <b>REACH registration number:</b> 01-2119457892-27-XXXX	
<b>Classification</b> Skin Corr. 1A - H314 Eye Dam. 1 - H318	<b>Classification (67/548/EEC or 1999/45/EC)</b> C;R35
<b>Heliotropine</b>	<b>&lt;1%</b>
<b>CAS number:</b> 120-57-0 <b>EC number:</b> 204-409-7	
<b>Classification</b> Skin Sens. 1B - H317	<b>Classification (67/548/EEC or 1999/45/EC)</b> R43.
<b>UNDECA-1,4-LACTONE</b>	<b>&lt;1%</b>
<b>CAS number:</b> 104-67-6 <b>EC number:</b> 203-225-4	
<b>Classification</b> Aquatic Chronic 3 - H412	<b>Classification (67/548/EEC or 1999/45/EC)</b> N;R51/53.
<b>ACRYLIC ACID</b>	<b>&lt;1%</b>
<b>CAS number:</b> 79-10-7 <b>EC number:</b> 201-177-9 <b>REACH registration number:</b> 01-2119452449-31-XXXX <b>M factor (Acute) = 1</b>	
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400	<b>Classification (67/548/EEC or 1999/45/EC)</b> R10 C;R35 Xn;R20/21/22 N;R50
<b>Ethyl methylphenylglycidate</b>	<b>&lt;1%</b>
<b>CAS number:</b> 77-83-8 <b>EC number:</b> 201-061-8	
<b>Classification</b> Skin Sens. 1B - H317 Aquatic Chronic 2 - H411	<b>Classification (67/548/EEC or 1999/45/EC)</b> N;R51/53. R43.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

## QUANTUM DASH CLEANER

### General information

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

### Inhalation

Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

### Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Give plenty of water to drink. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

### Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

### Eye contact

Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes and get medical attention.

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

#### General information

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

#### Inhalation

This is unlikely to occur but symptoms similar to those of ingestion may develop.

#### Ingestion

Always assume aspiration may have occurred. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. May give rise to nausea, vomiting, central nervous system depression.

#### Skin contact

Prolonged contact may cause redness, irritation and dry skin.

#### Eye contact

May cause temporary eye irritation.

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

#### Notes for the doctor

Treat symptomatically.

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## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

No unsuitable extinguishing media noted

### 5.2. Special hazards arising from the substance or mixture

#### Specific hazards

Toxic gases or vapours. No unusual fire or explosion hazards noted.

#### Hazardous combustion products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

### 5.3. Advice for firefighters

#### Protective actions during firefighting

## QUANTUM DASH CLEANER

Extinguishing waters may present a risk of damage to the environmental, collect and dispose of as hazardous waste, in accordance with local legislation. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

### Special protective equipment for firefighters

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

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### Personal precautions

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

### 6.2. Environmental precautions

#### Environmental precautions

Avoid release to the environment. Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

#### Methods for cleaning up

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

### 6.4. Reference to other sections

#### Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Usage precautions

Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container. Do not store near heat sources or expose to high temperatures.

#### 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.

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## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

## QUANTUM DASH CLEANER

### ISOPARAFFINIC SOLVENT, ALKANES C11-C15

Long-term exposure limit (8-hour TWA): 1200 mg/m<sup>3</sup>

### DIMETHICONE

No exposure limit value known.

### BENZALDEHYDE

No exposure limit value known.

### 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

### ETHYL ACETATE

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

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

### SODIUM HYDROXIDE

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

### Heliotropine

No exposure limit value known.

### UNDECA-1,4-LACTONE

No exposure limit value known.

### ACRYLIC ACID

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

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

### Ethyl methylphenylglycidate

No exposure limit value known.

WEL = Workplace Exposure Limit

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

DNEL	Workers - Inhalation; Long term systemic effects: 6.5 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 7.3 mg/kg bw/day General population - Inhalation; Long term systemic effects: 1.6 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 37 mg/kg bw/day General population - Oral; Long term systemic effects: 0.46 mg/kg bw/day
PNEC	- Fresh water; 0.188 mg/l - Marine water; 0.0188 mg/l - Intermittent release; 1.88 mg/l - STP; 10 mg/l - Sediment (Freshwater); 0.71 mg/kg sediment dw - Sediment (Marinewater); 0.071 mg/kg sediment dw - Soil; 0.03 mg/kg soil dw

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### BENZALDEHYDE (CAS: 100-52-7)

DNEL Workers - Inhalation; Long term systemic effects, local effects: 9.8 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 1.14 mg/kg bw/day  
General population - Inhalation; Long term systemic effects, local effects: 4.9 mg/m<sup>3</sup>  
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

### 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

### ETHYL ACETATE (CAS: 141-78-6)

DNEL Workers - Inhalation; Long term systemic effects: 734 mg/m<sup>3</sup>  
Workers - Inhalation; Short term Acute: 1468 mg/m<sup>3</sup>  
Workers - Inhalation; Long term local effects: 734 mg/m<sup>3</sup>  
Workers - Inhalation; Short term Acute: 1468 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 63 mg/kg bw/day  
General population - Inhalation; Long term systemic effects: 367 mg/m<sup>3</sup>  
General population - Inhalation; Short term Acute: 734 mg/m<sup>3</sup>  
General population - Inhalation; Long term local effects: 367 mg/m<sup>3</sup>  
General population - Inhalation; Short term Acute: 734 mg/m<sup>3</sup>  
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

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

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

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### Heliotropine (CAS: 120-57-0)

DNEL Workers - Inhalation; Long term systemic effects: 3.5 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 0.5 mg/kg bw/day  
 General population - Inhalation; Long term systemic effects: 0.87 mg/m<sup>3</sup>  
 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

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

DNEL 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

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

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

DNEL 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>  
 General population - Oral; Long term systemic effects: 0.6 mg/kg bw/day

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

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

DNEL Workers - Inhalation; Long term systemic effects: 19 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 5.38 mg/kg bw/day  
 General population - Inhalation; Long term systemic effects: 4.68 mg/m<sup>3</sup>  
 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

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### ACRYLIC ACID (CAS: 79-10-7)

DNEL  
 Workers - Inhalation; Long term local effects: 30 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term Acute: 30 mg/m<sup>3</sup>  
 Workers - Dermal; Short term Acute, local effects: 1 mg/cm<sup>2</sup>  
 General population - Inhalation; Long term local effects: 3.6 mg/m<sup>3</sup>  
 General population - Inhalation; Short term Acute: 3.6 mg/m<sup>3</sup>  
 General population - Dermal; Short term local effects: 1 mg/cm<sup>2</sup>

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

### Ethyl methylphenylglycidate (CAS: 77-83-8)

DNEL  
 Workers - Inhalation; Long term systemic effects: 2.45 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 0.7 mg/kg bw/day  
 General population - Inhalation; Long term systemic effects: 0.61 mg/m<sup>3</sup>  
 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

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours.

### Eye/face protection

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

### Hand protection

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

### Other skin and body protection

Wear apron or protective clothing in case of contact.

### Hygiene measures

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

### Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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## SECTION 9: Physical and Chemical Properties

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### 9.1. Information on basic physical and chemical properties

#### Appearance

Viscous liquid.

#### Colour

White.

#### Odour

Characteristic. Perfume. Fruity.

#### pH

pH (concentrated solution): 6.0 - 8.0

#### Melting point

-2°C

#### Initial boiling point and range

>105°C @ 760 mm Hg

#### Flash point

>150°C OC (Open cup).

#### Relative density

0.950 - 0.965 @ 20°C

#### Solubility(ies)

Emulsible in water.

#### Viscosity

3000 - 4500 cP @ 20°C

#### Comments

Information given is applicable to the product as supplied.

### 9.2. Other information

#### Volatile organic compound

This product contains a maximum VOC content of 120 g/litre.

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## SECTION 10: Stability and reactivity

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### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

#### Stability

Stable at normal ambient temperatures.

## QUANTUM DASH CLEANER

### **10.3. Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur. Will not polymerise.

### **10.4. Conditions to avoid**

Avoid excessive heat for prolonged periods of time. Avoid freezing.

### **10.5. Incompatible materials**

#### **Materials to avoid**

Strong oxidising agents. Strong acids.

### **10.6. 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**

#### **Other health effects**

There is no evidence that the product can cause cancer.

#### **Aspiration hazard**

Aspiration hazard if swallowed.

#### **General information**

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

#### **Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

#### **Ingestion**

Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

#### **Skin contact**

Skin irritation should not occur when used as recommended.

#### **Eye contact**

May cause severe eye irritation.

#### **Toxicological information on ingredients.**

#### **ISOPARAFFINIC SOLVENT, ALKANES C11-C15**

##### **Acute toxicity - oral**

**Acute toxicity oral (LD50 mg/kg)**

5,001.0

##### **Species**

Rat

**ATE oral (mg/kg)**

5,001.0

##### **Acute toxicity - dermal**

**Acute toxicity dermal (LD50 mg/kg)**

5001.0

##### **Species**

Rabbit

**ATE dermal (mg/kg)**

5001.0

##### **Acute toxicity - inhalation**

Data lacking.

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### Skin corrosion/irritation

#### **Animal data**

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

### Serious eye damage/irritation

Potentially irritant. Conclusive data but not sufficient for classification.

### Respiratory sensitisation

Data lacking.

### Germ cell mutagenicity

#### **Genotoxicity - in vitro**

Data lacking.

#### **Genotoxicity - in vivo**

Data lacking.

### Carcinogenicity

No information available.

### Reproductive toxicity

#### **Reproductive toxicity - fertility**

Data lacking.

### Specific target organ toxicity - single exposure

#### **STOT - single exposure**

Data lacking.

### Specific target organ toxicity - repeated exposure

#### **STOT - repeated exposure**

Data lacking.

### Aspiration hazard

Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. May be fatal if swallowed and enters airways.

### **Inhalation**

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

### **Ingestion**

Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

### **Skin contact**

Repeated exposure may cause skin dryness or cracking.

### **Eye contact**

May be slightly irritating to eyes.

### **Acute and chronic health hazards**

Aspiration hazard if swallowed.

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## **SECTION 12: Ecological Information**

### **Ecotoxicity**

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

### **12.1. Toxicity**

Not considered toxic to fish.

## QUANTUM DASH CLEANER

### Ecological information on ingredients.

#### ISOPARAFFINIC SOLVENT, ALKANES C11-C15

##### **Acute toxicity - fish**

LC<sub>50</sub>, 96 hours: >100 mg/l, Fish

### **12.2. Persistence and degradability**

#### **Persistence and degradability**

The product contains inorganic substances which are not biodegradable. The other substances in the product are slowly biodegradable.

### Ecological information on ingredients.

#### ISOPARAFFINIC SOLVENT, ALKANES C11-C15

##### **Persistence and degradability**

The product is not readily biodegradable.

### **12.3. Bioaccumulative potential**

Soluble in water, low potential for bioaccumulation.

### **12.4. Mobility in soil**

#### **Mobility**

The product contains substances which are water-soluble and may spread in water systems. The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### Ecological information on ingredients.

#### ISOPARAFFINIC SOLVENT, ALKANES C11-C15

##### **Mobility**

The product contains substances which are insoluble in water and which may spread on water surfaces. Not considered mobile.

### **12.5. Results of PBT and vPvB assessment**

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

### Ecological information on ingredients.

#### ISOPARAFFINIC SOLVENT, ALKANES C11-C15

Data lacking.

### **12.6. Other adverse effects**

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### **Disposal methods**

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

#### **Waste class**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## **SECTION 14: Transport information**

#### **General**

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

### **14.1. UN number**

Not applicable.

## QUANTUM DASH CLEANER

### 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

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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## SECTION 15: Regulatory information

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

#### National regulations

This surfactant complies 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.

#### 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.

#### Water hazard classification

N/A

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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## SECTION 16: Other information

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Revision date	03/12/2014
Revision	1
SDS status	Approved.
Risk phrases in full	

## QUANTUM DASH CLEANER

NC Not classified.  
R10 Flammable.  
R11 Highly flammable.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R35 Causes severe burns.  
R36 Irritating to eyes.  
R37 Irritating to respiratory system.  
R50 Very toxic to aquatic organisms.  
R53 May cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

### Hazard statements in full

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

### Disclaimer

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.