# 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: +44 1604 701111 (Office Hours Monday - Friday (0900 Hrs - 1700 Hrs))

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

# Classification (EC 1272/2008)

Physical hazards Not Classified

**Health hazards** Eye Irrit. 2 - H319

Environmental hazards Not Classified

Human health The product contains small amounts of organic solvents. Prolonged or repeated contact with

skin may cause irritation, redness and dermatitis. Irritating to eyes.

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

**Physicochemical** When handled correctly, undamaged units represent no danger.

## 2.2. Label elements

#### **Pictogram**



Signal word Warning

Hazard statements EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.

H319 Causes serious eye irritation.

### **QUANTUM DASH CLEANER**

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash contaminated skin thoroughly after handling. P280 Wear protective clothing, gloves, eye and 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.

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

Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

**Detergent labelling** 15 - < 30% aliphatic hydrocarbons, < 5% non-ionic surfactants, < 5% perfumes, Contains

BENZISOTHIAZOLINONE

#### 2.3. Other hazards

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

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

## HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS,

10-30%

<2% AROMATICS

CAS number: — EC number: 927-285-2 REACH registration number: 01-

2119480162-45-XXXX

Classification

Asp. Tox. 1 - H304

DIMETHICONE 5-10%

CAS number: 63148-62-9

Classification

Not Classified

#### C9-11 ALCOHOL ETHOXYLATE 6.5MEO

1-5%

CAS number: 68439-46-3

Classification

Acute Tox. 4 - H302 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

## **QUANTUM DASH CLEANER**

1,2-BENZISOTHIAZOL-3(2H)-ONE

<1%

CAS number: 2634-33-5 EC number: 220-120-9

M factor (Acute) = 1

Eye Irrit. 2 - H319 STOT SE 3 - H335

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 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

**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

## **QUANTUM DASH CLEANER**

ETHYL ACETATE <1%

CAS number: 141-78-6 EC number: 205-500-4 REACH registration number: 01-

2119475103-46-XXXX

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

Heliotropine <1%

CAS number: 120-57-0 EC number: 204-409-7

Classification

Skin Sens. 1B - H317

UNDECA-1,4-LACTONE <1%

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

Classification

Aquatic Chronic 3 - H412

ACRYLIC ACID <1%

CAS number: 79-10-7 EC number: 201-177-9 REACH registration number: 01-

2119452449-31-XXXX

M factor (Acute) = 1

Classification

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

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** If in doubt, get medical attention promptly.

### **QUANTUM DASH CLEANER**

**Inhalation** 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. Get medical attention if symptoms are severe or persist.

**Ingestion** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Rinse mouth thoroughly with water. 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. Never give anything by mouth to an unconscious person.

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. Continue to rinse for at least 15

minutes and get medical attention.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue. For

personal protection, see Section 8.

#### 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. Prolonged

inhalation of high concentrations may damage respiratory system.

Ingestion Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal

tract. A single exposure may cause the following adverse effects: Nausea, vomiting. Central

nervous system depression.

**Skin contact** Allergic rash. May cause skin sensitisation or allergic reactions in sensitive individuals.

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** Irritating to eyes. A single exposure may cause the following adverse effects: Redness.

Profuse watering of the eyes.

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

#### 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 Containers can burst violently or explode when heated, due to excessive pressure build-up.

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

Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. Use protective equipment appropriate for surrounding materials.

#### SECTION 6: Accidental release measures

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

Personal precautions

Follow precautions for safe handling described in this safety data sheet. Avoid contact with eyes and prolonged skin contact. For personal protection, see Section 8. Take care as floors and other surfaces may become slippery.

#### 6.2. Environmental precautions

**Environmental precautions** 

Avoid release to the environment. 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

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if safe to do so. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. 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. Avoid the spillage or runoff entering drains, sewers or watercourses. Large Spillages: Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. For waste disposal, see Section 13. 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.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions

Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid spilling. Keep container tightly sealed when not in use. Avoid inhalation of vapours. Avoid contact with skin and eyes. Provide adequate ventilation. Use approved respirator if air contamination is above an acceptable level.

Advice on general occupational hygiene

Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.

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

Storage precautions

Store away from incompatible materials (see Section 10). Store in tightly-closed, original container in a dry, cool and well-ventilated place. Do not store near heat sources or expose to high temperatures. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

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

#### **DIMETHICONE**

No exposure limit value known.

#### PROPYLENE GLYCOL

Long-term exposure limit (8-hour TWA): WEL 474 mg/m3 150 ppm particulate vapour

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

#### **BENZALDEHYDE**

No exposure limit value known.

#### **SODIUM METABISULPHITE**

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

## POTASSIUM HYDROXIDE

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

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

#### **SODIUM HYDROXIDE**

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

#### **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.

## **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/m³

Workers - Dermal; Long term systemic effects: 7.3 mg/kg bw/day General population - Inhalation; Long term systemic effects: 1.6 mg/m³ 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

#### **QUANTUM DASH CLEANER**

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 dwSediment (Marinewater); 0.071 mg/kg sediment dw

- Soil; 0.03 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/kgSediment (Marinewater); 57.2 mg/kg

- Soil; 50 mg/kg

- Intermittent release; 183 mg/l

# BENZALDEHYDE (CAS: 100-52-7)

**DNEL** Workers - Inhalation; Long term systemic effects, local effects: 9.8 mg/m³

Workers - Dermal; Long term systemic effects: 1.14 mg/kg bw/day

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

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

## 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

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

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

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

#### **QUANTUM DASH CLEANER**

## 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 dwSediment (Marinewater); 0.115 mg/kg sediment dw

- Soil; 0.148 mg/kg soil dw

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

**DNEL** Workers - Inhalation; Long term systemic effects: 33.3 mg/m³

Workers - Dermal; Short term local effects, Acute: 0.222 mg/cm<sup>2</sup>

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

CITRAL (CAS: 5392-40-5)

#### **QUANTUM DASH CLEANER**

**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/cm<sup>2</sup>

General population - Inhalation; Long term systemic effects: 2.7 mg/m³ General population - Dermal; Long term systemic effects: 1 mg/kg bw/day General population - Dermal; Long term local effects: 0.14 mg/cm²

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

PNEC - Fresh water; 0.00678 mg/l

Marine water; 0.000678 mg/lIntermittent 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

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

**DNEL** Workers - Inhalation; Long term local effects: 30 mg/m³

Workers - Inhalation; Short term Acute: 30 mg/m³

Workers - Dermal; Short term Acute, local effects: 1 mg/cm² General population - Inhalation; Long term local effects: 3.6 mg/m³ General population - Inhalation; Short term Acute: 3.6 mg/m³ General population - Dermal; Short term local effects: 1 mg/cm²

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/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

#### **QUANTUM DASH CLEANER**

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 dwSediment (Marinewater); 0.0214 mg/kg sediment dw

- Soil; 0.0378 mg/kg soil dw

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

**DNEL** Workers - Inhalation; Long term systemic effects: 5.83 mg/m³

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

General population - Oral; Long term systemic effects: 0.42 mg/kg bw/day

PNEC - Fresh water; 0.008 mg/l

- Marine water; 0.0008 mg/l

- STP; 0.2 mg/l

Sediment (Freshwater); 5.022 mg/kg sediment dw
Sediment (Marinewater); 0.502 mg/kg sediment dw

- Soil; 1.015 mg/kg soil dw

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

**DNEL** Workers - Inhalation; Long term systemic effects: 2.8 mg/m³

Workers - Inhalation; Short term Acute: 16.5 mg/m³

Workers - Dermal; Long term systemic effects: 2.5 mg/kg bw/day

Workers - Dermal; Short term Acute: 5 mg/kg bw/day Workers - Dermal; Long term local effects: 15 mg/cm² Workers - Dermal; Short term Acute: 15 mg/cm²

General population - Inhalation; Long term systemic effects: 0.7 mg/m3

General population - Inhalation; Short term Acute: 4.1 mg/m³

General population - Dermal; Long term systemic effects: 1.25 mg/kg bw/day

General population - Dermal; Short term Acute: 2.5 mg/kg bw/day General population - Dermal; Long term local effects: 15 mg/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

- Fresh water; 0.2 mg/l

Marine water; 0.02 mg/lIntermittent release; 2 mg/l

- STP; 10 mg/l

**PNEC** 

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

- Soil; 0.327 mg/kg soil dw

CITRONELLOL (CAS: 106-22-9)

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**DNEL** Workers - Inhalation; Long term systemic effects: 161.6 mg/m³

Workers - Inhalation; Long term local effects: 10 mg/m³ Workers - Inhalation; Short term Acute: 10 mg/m³

Workers - Dermal; Long term systemic effects: 327.4 mg/kg bw/day General population - Inhalation; Long term systemic effects: 47.8 mg/m³ General population - Inhalation; Long term local effects: 10 mg/m³ General population - Inhalation; Short term Acute: 10 mg/m³

General population - Dermal; Long term systemic effects: 196.4 mg/kg bw/day General population - Dermal; Short term local effects, Acute: 2.950 mg/cm²

Workers - Dermal; Short term Acute, local effects: 2.950 mg/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

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

**DNEL** Workers - Inhalation; Long term systemic effects: 161.6 mg/m³

Workers - Dermal; Long term systemic effects: 12.5 mg/kg bw/day

Workers - Dermal; Long term local effects: 11.8 mg/cm<sup>2</sup>

General population - Inhalation; Long term systemic effects: 47.8 mg/m³ General population - Dermal; Long term systemic effects: 7.5 mg/kg bw/day

General population - Dermal; Long term local effects: 11.8 mg/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/kgSediment (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.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The protection time of gloves for mixtures cannot be accurately estimated. The following recommendations are based on information available for component: [Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics] Wear protective gloves made of the following material: Nitrile rubber. The selected gloves should have a breakthrough time of at least 8 hours. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The breakthrough time for any glove material may be different for different glove manufacturers. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. The specific work activity/process may require a different specification to that described here.

Other skin and body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Do not smoke in work area. Wash 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

No specific requirements are anticipated under normal conditions of use. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Wear a respirator fitted with the following cartridge: Organic vapour + dust and mist filter. Combination filter, type A2/P2. Gas and combination filter cartridges should comply with European Standard EN14387. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Use approved respirator if air contamination is above an acceptable level.

# 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 Viscous liquid.

Colour White.

Odour Characteristic. Perfume. Cherry.

Odour threshold No information available.

**pH** pH (concentrated solution): 8.0 - 10.5

Melting pointNo information available.Initial boiling point and rangeNo information available.Flash pointNo information available.Evaporation rateNo information available.

# **QUANTUM DASH CLEANER**

Flammability (solid, gas) Not relevant. Liquid.

Upper/lower flammability or

explosive limits

No information available.

Vapour pressure No information available.

Relative density 0.89 - 0.96 @ 20°C

Solubility(ies) Emulsible in water.

Partition coefficient

No information available.

Auto-ignition temperature

No information available.

No information available.

Viscosity 800 - 1500 cP @ 20°C 850 cP @ 40°C

**Explosive properties** Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

**Comments** Information given is applicable to the product as supplied.

9.2. Other information

Other information Product does not separate on standing.

#### SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

10.2. Chemical stability

Stability Stable at normal ambient temperatures. Product does not separate on standing.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous

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

polymerise.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids.

# 10.6. Hazardous decomposition products

Hazardous decomposition

products

reactions

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

Carbon dioxide (CO2). Carbon monoxide (CO).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 61,022.12

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

#### **QUANTUM DASH CLEANER**

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

Skin corrosion/irritation

**Skin corrosion/irritation** Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation

Serious eye damage/irritation Eye Irrit. 2 - H319 Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

Skin sensitisation The product contains a small amount of sensitising substance. May cause skin sensitisation

or allergic reactions in sensitive individuals.

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.

Reproductive toxicity -

development

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 Viscous liquid. Product does not separate on standing.

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** May cause discomfort. Nausea, vomiting.

**Skin contact** Allergic rash. May cause skin sensitisation or allergic reactions in sensitive individuals.

**Eye contact** May cause severe eye irritation.

Medical considerations The following pre-existing or historic medical conditions of the worker may lead to an

increased risk of adverse health effects following exposure to this product: Allergies.

#### Toxicological information on ingredients.

# HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 5,001.0

mg/kg)

## **QUANTUM DASH CLEANER**

Species Rat

Notes (oral LD₅o) Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 3,161.0

mg/kg)

Species Rabbit

Notes (dermal LD₅o) Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 3,161.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC<sub>50</sub> dust/mist mg/l)

5.7

5.7

Species Rat

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

ATE inhalation

(dusts/mists mg/l)

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

Serious eye

damage/irritation

Based on available data the classification criteria are not met.

Respiratory sensitisation

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

Germ cell mutagenicity

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

**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 -

Based on available data the classification criteria are not met.

fertility

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

### **QUANTUM DASH CLEANER**

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.

## **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 (LD<sub>50</sub> 2,001.0

mg/kg)

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

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro

Data lacking.

Genotoxicity - in vivo

Data lacking.

Carcinogenicity

Carcinogenicity Data lacking.

## **QUANTUM DASH CLEANER**

Reproductive toxicity

Reproductive toxicity -Data lacking.

fertility

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.

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.

1,2-BENZISOTHIAZOL-3(2H)-ONE

Acute toxicity - oral

Acute toxicity oral (LD₅o

1,020.0

mg/kg)

**Species** Rat

ATE oral (mg/kg) 1,020.0

Carcinogenicity

IARC carcinogenicity No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC

Inhalation Dust may irritate the respiratory system. May be harmful if inhaled.

Harmful if swallowed. Ingestion

Skin contact Causes skin irritation. May be harmful if absorbed through skin.

Eye contact Causes burns.

SECTION 12: Ecological Information

**Ecotoxicity** Not considered toxic to fish. However, large or frequent spills may have hazardous effects on

the environment.

12.1. Toxicity

**Toxicity** Not considered toxic to fish.

Ecological information on ingredients.

HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

Acute aquatic toxicity

Acute toxicity - fish LL<sub>50</sub>, 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

#### **QUANTUM DASH CLEANER**

Acute toxicity - aquatic

invertebrates

EL50, 48 hours: >1000 mg/l,

Acute toxicity - aquatic

plants

EL50, 72 hours: >1000 mg/l, Pseudokirchneriella subcapitata

#### **C9-11 ALCOHOL ETHOXYLATE 6.5MEO**

Acute aquatic toxicity

Acute toxicity - fish EC<sub>50</sub>, 96 hours: 8.5 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 5.3 mg/l, Daphnia magna

# 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.

## HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

Persistence and degradability

The product is readily biodegradable.

#### **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.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential Soluble in water, low potential for bioaccumulation.

Partition coefficient No information available.

#### Ecological information on ingredients.

#### HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

**Bioaccumulative potential** No data available on bioaccumulation.

#### C9-11 ALCOHOL ETHOXYLATE 6.5MEO

Bioaccumulative potential The product is not bioaccumulating.

## 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.

#### HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

Mobility The product contains substances which are insoluble in water and which may

spread on water surfaces.

## C9-11 ALCOHOL ETHOXYLATE 6.5MEO

### **QUANTUM DASH CLEANER**

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

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

Results of PBT and vPvB

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

assessment

Ecological information on ingredients.

### HYDROCARBONS, C11-C14, ISOALKANES, CYCLICS, <2% AROMATICS

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

## **C9-11 ALCOHOL ETHOXYLATE 6.5MEO**

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

#### 12.6. Other adverse effects

Other adverse effects None known.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** The generation of waste should be minimised or avoided wherever possible. Reuse or recycle

products wherever possible. This material and its container must be disposed of in a safe

way. Waste is classified as hazardous waste.

**Disposal methods**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).

Waste class Waste codes should be assigned by the user, preferably in discussion with the waste disposal

authorities.

### **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

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### SECTION 15: Regulatory information

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

National regulations 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).

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March

2004 on detergents (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.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions on use are known for this product.

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

# **SECTION 16: Other information**

## **QUANTUM DASH CLEANER**

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

IMDG: International Maritime Dangerous Goods.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IATA: International Air Transport Association.

RID: European Agreement concerning the International Carriage of Dangerous Goods by

Rail.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978.

LD₅o: Lethal Dose to 50% of a test population (Median Lethal Dose).

LC₅o: Lethal Concentration to 50 % of a test population.

ATE: Acute Toxicity Estimate.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

Kow: Octanol-water partition coefficient.

EC₅: 50% of maximal Effective Concentration.

Classification procedures according to Regulation (EC) 1272/2008

Eye Irrit. 2 - H319, EUH208, EUH066: Calculation method., Expert judgement.

Revision comments

Revised formulation.

**Issued by** HS&E Manager.

Revision date 29/06/2018

Revision 5

Supersedes date 12/08/2016

SDS status Approved.

Hazard statements in full EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

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.

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.

H400 Very toxic to aquatic life.

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.