



## SAFETY DATA SHEET

### S6 LEMON HARD SURFACE CLEANER

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

##### 1.1. Product identifier

Product name : S6 Lemon Hard Surface Cleaner  
UFI : ETH0-H0Y9-V00Y-QWMF

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

###### 1.2.1. Relevant identified uses

Professional use.

###### 1.2.2. Uses advised against

No additional information available

##### 1.3. Details of the supplier of product safety information sheet

**Supplier** Orca Hygiene  
Blackhouse Circle,  
Blackhouse Industrial Estate,  
Peterhead, AB42 1BN  
+44 (0)1779 871945  
technical@orcahygiene.com

**Contact person** For content of safety data sheet: technical@orcahygiene.com

**Manufacturer** Orca Hygiene  
Blackhouse Circle,  
Blackhouse Industrial Estate,  
Peterhead, AB42 1BN  
+44 (0)1779 871945  
technical@orcahygiene.com

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0)1779 871945  
**National emergency telephone number** For the emergency services - the ambulance, police and fire services - Tel: 999 /  
When you need medical advice or treatment but it is not an emergency - Tel: 111

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315

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Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-statements: see section 16

## Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage.

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

Signal word (CLP)

: Danger

Contains

: sodium hydroxide; caustic soda, Isotridecanol ethoxylated (8-EO)

Hazard statements (CLP)

: H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Precautionary statements (CLP)

: P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

EUH-statements

: EUH208 - Contains dipentene; limonene(138-86-3). May produce an allergic reaction.

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name  | Product identifier  | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|---|----------|---|
| Isotridecanol ethoxylated (8-EO)  | CAS-No.: 9043-30-5<br>EC-No.: 931-785-6                               | 1 – 5    | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318   |
| β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts                    | CAS-No.: 90170-43-7<br>EC-No.: 290-476-8                              | 0.1 – 5  | Eye Irrit. 2, H319<br>STOT RE 2, H373   |
| sodium hydroxide; caustic soda substance with national workplace exposure limit(s) (GB) | CAS-No.: 1310-73-2<br>EC-No.: 215-185-5<br>EC Index-No.: 011-002-00-6 | < 5      | Skin Corr. 1A, H314   |
| dipentene; limonene   | CAS-No.: 138-86-3<br>EC-No.: 205-341-0<br>EC Index-No.: 601-029-00-7  | 0.01 – 1 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

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| Specific concentration limits: |   |   |
|--------------------------------|---|---|
| Name                           | Product identifier  | Specific concentration limits   |
| sodium hydroxide; caustic soda | CAS-No.: 1310-73-2<br>EC-No.: 215-185-5<br>EC Index-No.: 011-002-00-6 | ( 0.5 ≤C < 2) Skin Irrit. 2, H315<br>( 0.5 ≤C < 2) Eye Irrit. 2, H319<br>( 2 ≤C < 5) Skin Corr. 1B, H314<br>( 5 ≤C ≤ 100) Skin Corr. 1A, H314 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.                           |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.   |

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

|                                     |                           |
|-------------------------------------|---------------------------|
| Symptoms/effects after skin contact | : Irritation.             |
| Symptoms/effects after eye contact  | : Serious damage to eyes. |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

## **6.4. Reference to other sections**

For further information refer to section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes.  
Wear personal protective equipment.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

### **7.3. Specific end use(s)**

No additional information available

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **8.1.1 National occupational exposure and biological limit values**

| <b>sodium hydroxide; caustic soda (1310-73-2)</b>    |                                       |
|--|---------------------------------------|
| <b>United Kingdom - Occupational Exposure Limits</b> |                                       |
| Local name   | Sodium hydroxide                      |
| WEL STEL (OEL STEL)                                  | 2 mg/m <sup>3</sup>                   |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE |

#### **8.1.2. Recommended monitoring procedures**

No additional information available

#### **8.1.3. Air contaminants formed**

No additional information available

#### **8.1.4. DNEL and PNEC**

No additional information available

#### **8.1.5. Control banding**

No additional information available

### **8.2. Exposure controls**

#### **8.2.1. Appropriate engineering controls**

##### **Appropriate engineering controls:**

Ensure good ventilation of the work station. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

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### 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses. EN 166

#### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Disposable gloves. Wear suitable gloves tested to EN374

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|   |                             |
|---|-----------------------------|
| Physical state                                  | : Liquid                    |
| Colour  | : Clear fluorescent yellow. |
| Odour   | : Citrus                    |
| Odour threshold                                 | : No data available         |
| pH  | : 12.5                      |
| Relative evaporation rate (butylacetate=1)      | : No data available         |
| Melting point                                   | : Not applicable            |
| Freezing point                                  | : No data available         |
| Boiling point                                   | : No data available         |
| Flash point                                     | : No data available         |
| Auto-ignition temperature                       | : No data available         |
| Decomposition temperature                       | : No data available         |
| Flammability (solid, gas)                       | : Not applicable            |
| Vapour pressure                                 | : No data available         |
| Relative vapour density at 20 °C                | : No data available         |
| Relative density                                | : No data available         |
| Solubility                                      | : No data available         |
| Partition coefficient n-octanol/water (Log Pow) | : No data available         |
| Viscosity, kinematic                            | : No data available         |
| Viscosity, dynamic                              | : No data available         |
| Explosive properties                            | : No data available         |
| Oxidising properties                            | : No data available         |
| Explosive limits                                | : No data available         |

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## 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
 Acute toxicity (dermal) : Not classified  
 Acute toxicity (inhalation) : Not classified

| <b>2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve (111-76-2)</b> |                         |
|---|-------------------------|
| LD50 oral rat   | > 470 mg/kg bodyweight  |
| LD50 oral   | > 1230 mg/kg bodyweight |
| LC50 Inhalation - Rat (Vapours)   | > 5.2 mg/l/4h           |

Skin corrosion/irritation : Causes skin irritation  
 pH: 12.5  
 Serious eye damage/irritation : Causes serious eye damage  
 pH: 12.5  
 Respiratory or skin sensitisation : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 Reproductive toxicity : Not classified  
 STOT-single exposure : Not classified  
 STOT-repeated exposure : Not classified

| <b>β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts (90170-43-7)</b> |   |
|--|---|
| LOAEL (oral, rat, 90 days)   | 160 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| NOAEL (oral, rat, 90 days)   | 43 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  |

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Aspiration hazard : Not classified

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

| <b>sodium hydroxide; caustic soda (1310-73-2)</b>  |   |
|--|---|
| EC50 - Crustacea [1]   | 40.4 mg/l Test organisms (species): Ceriodaphnia sp.                                      |
| <b>β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts (90170-43-7)</b> |   |
| LC50 - Fish [1]  | ≈ 4.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1]   | ≈ 29 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1]   | ≈ 5.5 mg/l Test organisms (species): Chlorella vulgaris                                   |
| EC50 72h - Algae [2]   | ≈ 9.4 mg/l Test organisms (species): Chlorella vulgaris                                   |
| NOEC (chronic)   | ≈ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                        |
| NOEC chronic fish  | 3.2 mg/l  |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG           | IATA           | ADN            | RID            |
|--|----------------|----------------|----------------|----------------|
| 14.1. UN number                        |                |                |                |                |
| Not applicable                         | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name          |                |                |                |                |
| Not applicable                         | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es)       |                |                |                |                |
| Not applicable                         | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group                    |                |                |                |                |
| Not applicable                         | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards            |                |                |                |                |
| Not applicable                         | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available |                |                |                |                |

### **14.6. Special precautions for user**

#### **Overland transport**

Not applicable

#### **Transport by sea**

Not applicable

#### **Air transport**

Not applicable

#### **Inland waterway transport**

Not applicable

#### **Rail transport**

Not applicable

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

Not applicable

## SECTION 15: Regulatory information

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

#### **15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### **15.1.2. National regulations**

No additional information available

### **15.2. Chemical safety assessment**

No chemical safety assessment has been carried out



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## SECTION 16: Other information

| <b>Abbreviations and acronyms:</b> |   |
|------------------------------------|---|
| ADN                                | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                                | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                                | Acute Toxicity Estimate   |
| BCF                                | Bioconcentration factor   |
| BLV                                | Biological limit value  |
| BOD                                | Biochemical oxygen demand (BOD)   |
| COD                                | Chemical oxygen demand (COD)  |
| DMEL                               | Derived Minimal Effect level  |
| DNEL                               | Derived-No Effect Level   |
| EC-No.                             | European Community number   |
| EC50                               | Median effective concentration  |
| EN                                 | European Standard   |
| IARC                               | International Agency for Research on Cancer   |
| IATA                               | International Air Transport Association   |
| IMDG                               | International Maritime Dangerous Goods  |
| LC50                               | Median lethal concentration   |
| LD50                               | Median lethal dose  |
| LOAEL                              | Lowest Observed Adverse Effect Level  |
| NOAEC                              | No-Observed Adverse Effect Concentration  |
| NOAEL                              | No-Observed Adverse Effect Level  |
| NOEC                               | No-Observed Effect Concentration  |
| OECD                               | Organisation for Economic Co-operation and Development  |
| OEL                                | Occupational Exposure Limit   |
| PBT                                | Persistent Bioaccumulative Toxic  |
| PNEC                               | Predicted No-Effect Concentration   |
| RID                                | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS                                | Safety Data Sheet   |
| STP                                | Sewage treatment plant  |
| ThOD                               | Theoretical oxygen demand (ThOD)  |
| TLM                                | Median Tolerance Limit  |
| VOC                                | Volatile Organic Compounds  |
| CAS-No.                            | Chemical Abstract Service number  |
| N.O.S.                             | Not Otherwise Specified   |
| vPvB                               | Very Persistent and Very Bioaccumulative  |
| ED                                 | Endocrine disrupting properties   |

| <b>Full text of H- and EUH-statements:</b> |   |
|--|---|
| Acute Tox. 4 (Oral)                        | Acute toxicity (oral), Category 4   |
| Aquatic Acute 1                            | Hazardous to the aquatic environment — Acute Hazard, Category 1           |
| Aquatic Chronic 1                          | Hazardous to the aquatic environment — Chronic Hazard, Category 1         |
| EUH208                                     | Contains dipentene; limonene(138-86-3). May produce an allergic reaction. |
| Eye Dam. 1                                 | Serious eye damage/eye irritation, Category 1                             |
| Eye Irrit. 2                               | Serious eye damage/eye irritation, Category 2                             |
| Flam. Liq. 3                               | Flammable liquids, Category 3   |
| H226                                       | Flammable liquid and vapour.  |
| H302                                       | Harmful if swallowed.   |
| H314                                       | Causes severe skin burns and eye damage.                                  |
| H315                                       | Causes skin irritation.   |
| H317                                       | May cause an allergic skin reaction.                                      |
| H318                                       | Causes serious eye damage.  |

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|               |  |
|---------------|--|
| H319          | Causes serious eye irritation.                                     |
| H373          | May cause damage to organs through prolonged or repeated exposure. |
| H400          | Very toxic to aquatic life.  |
| H410          | Very toxic to aquatic life with long lasting effects.              |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A             |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B             |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2                              |
| Skin Sens. 1  | Skin sensitisation, Category 1                                     |
| STOT RE 2     | Specific target organ toxicity — Repeated exposure, Category 2     |

Safety Data Sheet (SDS), EU