

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

**1.1. Product identifier**

Product form : Mixture  
 Product name : SCRUB KLEEN  
 Product code : 308  
 Type of product : Detergent  
 Product group : Mixture

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

**1.2.1. Relevant identified uses**

Main use category : Industrial use, Professional use  
 Industrial/Professional use spec : Industrial  
 For professional use only  
 Use of the substance/mixture : Alkaline cleaner

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Clover Chemicals Ltd  
 Clover House  
 Macclesfield Road  
 SK23 7DQ Whaley Bridge - United Kingdom  
 T 01663 733114 - F 01663 733115  
[info@cloverchemicals.com](mailto:info@cloverchemicals.com) - [www.cloverchemicals.com](http://www.cloverchemicals.com)

**1.4. Emergency telephone number**

| Country        | Official advisory body   | Address                                  | Emergency number   | Comment |
|----------------|--|--|--|---------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                     | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |
| United Kingdom | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH Birmingham        | 0344 892 0111  |         |

**SECTION 2: Hazards identification**

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

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

Skin Corr. 1 H314

Full text of hazard classes and H-statements : see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements**

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

Hazard pictograms (CLP) :



GHS05

CLP Signal word

: Danger

Hazard statements (CLP)

: H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.  
 P264 - Wash hands thoroughly after handling.  
 P280 - Wear protective gloves, eye protection.  
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 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.  
 P405 - Store locked up.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 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] |
|------------------------------|--|-------|---|
| Sodium hydroxide             | (CAS-no) 1310-73-2<br>(Einecs nr) 215-185-5<br>(EG annex nr) 011-002-00-6<br>(REACH-no) 01-2119457892-27 | 3 – 5 | Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>Met. Corr. 1, H290   |
| Fatty alcohol ethoxylate     | (CAS-no) 160875-66-1<br>(Einecs nr) 605-233-7<br>(EG annex nr) /   | 1 – 3 | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318                   |
| Alcohols, C9-11, ethoxylated | (CAS-no) 68439-46-3  | 1 – 3 | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318                   |

### Specific concentration limits:

| Name             | Product identifier   | Specific concentration limits   |
|------------------|--|---|
| Sodium hydroxide | (CAS-no) 1310-73-2<br>(Einecs nr) 215-185-5<br>(EG annex nr) 011-002-00-6<br>(REACH-no) 01-2119457892-27 | ( 0.5 ≤C < 2) Eye Irrit. 2, H319<br>( 0.5 ≤C < 2) Skin Irrit. 2, H315<br>( 2 ≤C < 5) Skin Corr. 1B, H314<br>( 5 ≤C < 100) Skin Corr. 1A, H314 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation

: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

Skin contact

: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.

Eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion

: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects

: Causes severe skin burns and eye damage.

Acute effects inhalation

: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

Acute effects skin

: Causes severe burns.

Acute effects eyes

: Causes serious eye damage. Risk of serious damage to eyes.

Acute effects oral route

: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Blood in vomit.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media

: Water. Use extinguishing media appropriate for surrounding fire.

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

Hazardous decomposition products in case of fire

: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

### 5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  
Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.

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

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container tightly closed.

Incompatible products : Strong acids.

Packaging materials : polyethylene. stainless steel.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Sodium hydroxide (1310-73-2)

##### Ireland - Occupational Exposure Limits

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Local name                            | Sodium hydroxide                      |
| OEL (15 min ref) (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup>                   |
| Regulatory reference                  | Chemical Agents Code of Practice 2020 |

##### United Kingdom - Occupational Exposure Limits

|                               |                                       |
|-------------------------------|---------------------------------------|
| Local name                    | Sodium hydroxide                      |
| WEL STEL (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup>                   |
| Regulatory reference          | EH40/2005 (Fourth edition, 2020). HSE |

#### 8.2. Exposure controls

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### Hand protection:

Wear protective gloves.

##### Eye protection:

Chemical goggles or face shield. Safety glasses. tightly fitting safety goggles

##### Protective equipment:

Wear suitable protective clothing

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### Personal protective equipment symbol(s):



### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|  |                     |
|--|---------------------|
| Physical state                             | : Liquid            |
| Physical state/form                        | : Liquid.           |
| Colour                                     | : Off-white.        |
| Odour                                      | : Characteristic.   |
| Odour threshold                            | : No data available |
| pH   | : 13.5              |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point/range                        | : 0 °C              |
| Freezing point                             | : No data available |
| Boiling point/Boiling range                | : 100 °C            |
| Flash point                                | : No data available |
| Autoignition temperature                   | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : Non flammable.    |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |
| Relative density                           | : 1.075             |
| Solubility                                 | : Soluble in 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 |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 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

Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

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### Alcohols, C9-11, ethoxylated (68439-46-3)

|                |                            |
|----------------|----------------------------|
| LD50 oral rat  | > 300 ( $\leq$ 2000) mg/kg |
| ATE CLP (oral) | 2000 mg/kg bodyweight      |

### Fatty alcohol ethoxylate (160875-66-1)

|                 |                          |
|-----------------|--------------------------|
| LD50 oral rat   | > 300 (300 – 2000) mg/kg |
| LD50 dermal rat | > 2000 mg/kg             |
| ATE CLP (oral)  | 300 mg/kg bodyweight     |

### Sodium hydroxide (1310-73-2)

|                |                       |
|----------------|-----------------------|
| ATE CLP (oral) | 2000 mg/kg bodyweight |
|----------------|-----------------------|

|   |   |
|---|---|
| Skin corrosion/irritation                           | : Causes severe skin burns.<br>pH: 13.5                             |
| Serious eye damage/irritation                       | : Assumed to cause serious eye damage<br>pH: 13.5                   |
| Respiratory or skin sensitisation                   | : Not classified  |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Germ cell mutagenicity                              | : Not classified  |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Carcinogenicity                                     | : Not classified  |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Reproductive toxicity                               | : Not classified  |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| STOT-single exposure                                | : Not classified  |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| STOT-repeated exposure                              | : Not classified  |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Aspiration hazard                                   | : Not classified  |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

## SECTION 12: Ecological information

### 12.1. Toxicity

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

### Alcohols, C9-11, ethoxylated (68439-46-3)

|             |             |
|-------------|-------------|
| LC50 fish 1 | 1 – 10 mg/l |
| LC50 fish 2 | 1 – 10 mg/l |

### Fatty alcohol ethoxylate (160875-66-1)

|                   |           |
|-------------------|-----------|
| EC50 Daphnia 1    | > 10 mg/l |
| ErC50 (algae)     | > 10 mg/l |
| NOEC chronic fish | > 1 mg/l  |

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### Sodium hydroxide (1310-73-2)

|                                |                          |
|--------------------------------|--------------------------|
| LC50 fish 1                    | > 35 mg/l                |
| EC50 Daphnia 1                 | 40.4 mg/l (Ceriodaphnia) |
| EC50 other aquatic organisms 1 | > 33 mg/l waterflea      |

### 12.2. Persistence and degradability

#### SCRUB KLEEN

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

### Fatty alcohol ethoxylate (160875-66-1)

|                               |                |
|-------------------------------|----------------|
| Persistence and degradability | Biodegradable. |
|-------------------------------|----------------|

### Sodium hydroxide (1310-73-2)

|                               |                 |
|-------------------------------|-----------------|
| Persistence and degradability | Not applicable. |
|-------------------------------|-----------------|

### 12.3. Bioaccumulative potential

#### SCRUB KLEEN

|                           |                     |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |
|---------------------------|---------------------|

### Fatty alcohol ethoxylate (160875-66-1)

|                           |                     |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |
|---------------------------|---------------------|

### Sodium hydroxide (1310-73-2)

|                           |                     |
|---------------------------|---------------------|
| Log Pow                   | -3.88               |
| Bioaccumulative potential | No bioaccumulation. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### SCRUB KLEEN

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Waste / unused products : Avoid release to the environment.

## SECTION 14: Transport information

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

| ADR                                  | IMDG                     | IATA                     |
|--------------------------------------|--------------------------|--------------------------|
| <b>14.1. UN number</b>               |                          |                          |
| UN 1760                              | UN 1760                  | UN 1760                  |
| <b>14.2. UN proper shipping name</b> |                          |                          |
| CORROSIVE LIQUID, N.O.S.             | CORROSIVE LIQUID, N.O.S. | Corrosive liquid, n.o.s. |

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| Transport document description   |   |  |
|--|---|--|
| UN 1760 CORROSIVE LIQUID, N.O.S.<br>(Sodium hydroxide (4.2%)), 8, III, (E) | UN 1760 CORROSIVE LIQUID, N.O.S.<br>(Sodium hydroxide (4.2%)), 8, III | UN 1760 Corrosive liquid, n.o.s. (Sodium hydroxide (4.2%)), 8, III |
| 14.3. Transport hazard class(es)   |   |  |
| 8  | 8   | 8  |
|  |   |  |
| 14.4. Packing group  |   |  |
| III  | III   | III  |
| 14.5. Environmental hazards  |   |  |
| Dangerous for the environment : No   | Dangerous for the environment : No<br>Marine pollutant : No           | Dangerous for the environment : No                                 |
| No supplementary information available                                     |   |  |

### 14.6. Special precautions for user

#### Overland transport

|   |                           |
|---|---------------------------|
| Classification code (ADR)                                 | : C9                      |
| Special provisions (ADR)                                  | : 274                     |
| Limited quantities (ADR)                                  | : 5I                      |
| Packing instructions (ADR)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR)                            | : MP19                    |
| Portable tank and bulk container instructions (ADR)       | : T7                      |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP28               |
| Tank code (ADR)   | : L4BN                    |
| Vehicle for tank carriage                                 | : AT                      |
| Transport category (ADR)                                  | : 3                       |
| Special provisions for carriage - Packages (ADR)          | : V12                     |
| Hazard identification number (Kemler No.)                 | : 80                      |
| Orange plates   | :                         |

|             |      |
|-------------|------|
| Tunnel code | : E  |
| EAC code    | : 2X |
| APP code    | : B  |

#### Transport by sea

|                                 |              |
|---------------------------------|--------------|
| Special provisions (IMDG)       | : 223, 274   |
| Limited quantities (IMDG)       | : 5 L        |
| Packing instructions (IMDG)     | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03      |

#### Air transport

|  |            |
|--|------------|
| PCA Limited quantities (IATA)                | : Y841     |
| PCA limited quantity max net quantity (IATA) | : 1L       |
| PCA packing instructions (IATA)              | : 852      |
| PCA max net quantity (IATA)                  | : 5L       |
| CAO packing instructions (IATA)              | : 856      |
| CAO max net quantity (IATA)                  | : 60L      |
| Special provisions (IATA)                    | : A3, A803 |

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

Not applicable

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### 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

| Detergent Regulation (648/2004/EC): Labelling of contents: |     |
|--|-----|
| Component  | %   |
| non-ionic surfactants                                      | <5% |

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                      |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1          |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2          |
| Met. Corr. 1                        | Corrosive to metals, Category 1                        |
| Skin Corr. 1                        | Skin corrosion/irritation, Category 1                  |
| 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                  |
| H290                                | May be corrosive to metals.                            |
| H302                                | Harmful if swallowed.                                  |
| H314                                | Causes severe skin burns and eye damage.               |
| H315                                | Causes skin irritation.                                |
| H318                                | Causes serious eye damage.                             |
| H319                                | Causes serious eye irritation.                         |

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|              |      |                       |
|--------------|------|-----------------------|
| Skin Corr. 1 | H314 | On basis of test data |
|--------------|------|-----------------------|

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.