



# SAFETY DATA SHEET

(revision) date 17-Apr-2015

Version 2

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

### 1.1. Product identifier

**Product Code** ECOVER10  
**Product Name** Limescale remover  
**Internal Code** 3000469  
**Pure substance/mixture** Mixture

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

**Recommended Use** Cleaning agent  
**Uses advised against** No information available

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

**Company Name**  
ECOVER CO-ORDINATION CENTER  
Steenovenstraat 1A  
2390 Malle Belgium  
Phone: +32 (0)3 309 2500  
Fax: +32 (0)3 311 7270

**Responsible for placing on the market**  
See Company Name

**E-mail address** sds@ecover.com

### 1.4. Emergency telephone number

| Emergency Telephone - §45 - (EC)1272/2008 |  |
|---|--|
| Austria                                   | +43 1 406 43 43  |
| Belgium                                   | +32 (0)70 245 245 (Antipoison Centre Belgium)  |
| Denmark                                   | +45 82 12 12 12  |
| Finland                                   | (09) 471 977 MYRKYTYSTIETOKESKUS (24 H)  |
| France                                    | + 33 (0)1 45 42 59 59 - Orfila (24h)   |
| Netherlands                               | 030-2748888 (National Poisons Information Center (NVIC)) Only for the purpose of informing medical personnel in cases of acute intoxications |
| Portugal                                  | 808 250 143 - CIAV   |
| Spain                                     | + 34 91 562 04 20  |
| Switzerland                               | STIZ (Tox-Zentrum) CH Zürich: 145/ +41 44 251 51 51 (24h/7)  |
| United Kingdom                            | 03451 302230 - UK customer careline  |
| Slovenia                                  | +800 505 25 052<br>+32 898 60 540  |
| Czech Republic                            | Toxikologické informační středisko, Na Bojišti 1, 120 00 Praha 2, Telefon: +420 224 919 293, +420 224 915 402                                |
| Slovakia                                  | 24 - hodinová konzultačná služba pri akútnych intoxikáciách: +421 2 5477 4166  |
| Hungary                                   | Magyarország 06 80 201-199 (ETTSZ)   |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

According to Regulation (EC) n° 1272/2008 (CLP):

|                                   |            |
|-----------------------------------|------------|
| Serious eye damage/eye irritation | Category 2 |
|-----------------------------------|------------|

**2.2. Label elements**

According to Regulation (EC) n° 1272/2008 (CLP):

**Signal word**

Warning

**Hazard statements**

H319 - Causes serious eye irritation

**Precautionary Statements - EU (§28, 1272/2008)**

P102 - Keep out of reach of children

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

P101 - If medical advice is needed, have product container or label at hand

**2.3. Other hazards**

None under normal use conditions.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

| Chemical Name                                      | EC No     | CAS-No     | Percent  | Classification according to 67/548/EEC | Classification according to Regulation (EC) No. 1272/2008 [CLP]  | REACH Registration Number |
|--|-----------|------------|----------|--|--|---------------------------|
| Citric acid monohydrate                            | 201-069-1 | 5949-29-1  | 10-30    | Xi; R36                                | Eye Irrit. 2 (H319)  | 01-2119457026-42          |
| D-Glucopyranose, oligomers, decyl octyl glycosides | 500-220-1 | 68515-73-1 | 1-5      | Xi; R41                                | Eye Dam 1 (H318)   | 01-2119488530-36          |
| (R)-p-mentha-1,8-diene                             | 227-813-5 | 5989-27-5  | 0.01-0.1 | R10<br>Xi; R38-43<br>N; R50/53         | Skin Irrit. 2 (H315)<br>Skin Sens. 1 (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)<br>Flam. Liq. 3 (H226) | 01-2119529223-47          |

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****General advice**

If symptoms persist, call a physician.

**Eye Contact**

In the case of contact with eyes, rinse immediately with plenty of water and seek medical

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advice

**Skin Contact**

Wash off immediately with plenty of water.

**Ingestion**

Do NOT induce vomiting. Clean mouth with water and drink plenty of water. Get medical attention

**Inhalation**

Remove to fresh air.

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

See section 2 for more information. See section 11 for more information.

**4.3. Indication of any immediate medical attention and special treatment needed****Note to physicians**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable Extinguishing Media**

None

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

None known

**5.3. Advice for firefighters****Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes and skin

**6.2. Environmental precautions**

Avoid release to the environment.

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

Recover usable material in a clean closable container for reuse. Sweep up contaminated material and dispose of as chemical waste. Remove the remainder with water.

**6.4. Reference to other sections**

SECTION 8: Exposure controls/personal protection

SECTION 12: Ecological information

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Ensure adequate ventilation, especially in confined areas

Use personal protection recommended in Section 8

Avoid contact with skin and eyes

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

Keep out of the reach of children.  
 Keep container tightly closed in a dry and well-ventilated place  
 Do not store <0°C and >40°C.

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

No data available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

| Chemical Name          | European Union | United Kingdom | France  | Spain | Germany  |
|------------------------|----------------|----------------|---|-------|--|
| (R)-p-mentha-1,8-diene |                |                | TWA: 1000 mg/m <sup>3</sup><br>STEL: 1500 mg/m <sup>3</sup> |       | TWA: 5 ppm<br>TWA: 28 mg/m <sup>3</sup><br>Ceiling / Peak: 20 ppm<br>Ceiling / Peak: 112 mg/m <sup>3</sup><br>Skin |

| Chemical Name          | Italy | Portugal | Netherlands | Finland  | Denmark |
|------------------------|-------|----------|-------------|--|---------|
| (R)-p-mentha-1,8-diene |       |          |             | HTP8h: 25 ppm<br>HTP8h: 140 mg/m <sup>3</sup><br>HTP15min: 50 ppm<br>HTP15min: 280 mg/m <sup>3</sup> |         |

| Chemical Name          | Austria | Switzerland   | Poland | Norway   | Ireland |
|------------------------|---------|---|--------|--|---------|
| (R)-p-mentha-1,8-diene |         | STEL: 14 ppm<br>STEL: 80 mg/m <sup>3</sup><br>TWA: 7 ppm<br>TWA: 40 mg/m <sup>3</sup> |        | TWA: 25 ppm<br>TWA: 140 mg/m <sup>3</sup><br>STEL: 25 ppm<br>STEL: 140 mg/m <sup>3</sup> |         |

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering Controls** None under normal use conditions.

**Personal protective equipment****Eye/face protection**

Wear safety goggles when clearing accidentally released material.

**Hand Protection**

For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Skin protection**

No information available.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Physical State @20°C** Liquid  
**Odor** citrus fruits  
**Color** colorless

| Property                       | Values | Remarks • Method         |
|--------------------------------|--------|--------------------------|
| pH                             | 2.25   |                          |
| Melting point / freezing point |        | No information available |
| Boiling point / boiling range  |        | No information available |

|                                  |                |                          |
|----------------------------------|----------------|--------------------------|
| <b>Flash Point</b>               | > 100 °C       |                          |
| <b>Evaporation rate</b>          |                | No information available |
| <b>Flammability (solid, gas)</b> |                | No information available |
| <b>Flammability Limit in Air</b> |                | No information available |
| <b>Upper Flammability Limit</b>  |                | No information available |
| <b>Lower flammability limit</b>  |                | No information available |
| <b>Vapor pressure</b>            |                | No information available |
| <b>Vapor density</b>             |                | No information available |
| <b>Relative density</b>          | 1.05 kg/l      |                          |
| <b>Water solubility</b>          |                | No information available |
| <b>Solubility(ies)</b>           |                | No information available |
| <b>Partition coefficient</b>     |                | No information available |
| <b>Autoignition temperature</b>  |                | No information available |
| <b>Decomposition temperature</b> |                | No information available |
| <b>Kinematic viscosity</b>       | 13,2 cP        |                          |
| <b>Dynamic viscosity</b>         |                |                          |
| <b>Explosive properties</b>      | Not applicable |                          |
| <b>Oxidizing properties</b>      | None           |                          |
| <b>9.2. Other information</b>    |                |                          |
| <b>VOC Content (%)</b>           | 0.2            |                          |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not expected

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Do not store <0°C and >40°C.

### 10.5. Incompatible materials

Do not mix with other cleaning products.

### 10.6. Hazardous decomposition products

None under normal use conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** Product does not present an acute toxicity hazard based on known or supplied information

| Chemical Name          | Oral LD50            | Dermal LD50         | Inhalation LC50 |
|------------------------|----------------------|---------------------|-----------------|
| (R)-p-mentha-1,8-diene | = 4400 mg/kg ( Rat ) | > 5 g/kg ( Rabbit ) |                 |

**Irritation** Irritating to eyes

**Respiratory or skin sensitization** No known effect

|   |                  |
|---|------------------|
| <b>Carcinogenicity</b>                                    | No known effect. |
| <b>Reproductive toxicity</b>                              | No known effect. |
| <b>Germ cell mutagenicity</b>                             | No known effect. |
| <b>Specific target organ toxicity (single exposure)</b>   | No known effect  |
| <b>Specific target organ toxicity (repeated exposure)</b> | No known effect  |
| <b>Aspiration hazard</b>                                  | No known effect  |
| <b>Target Organ Effects</b>                               | No known effect. |

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Product

EC50/48h/daphnia

No data available

#### Ingredients

| Chemical Name          | Algae/aquatic plants | Fish  | Crustacea |
|------------------------|----------------------|---|-----------|
| (R)-p-mentha-1,8-diene |                      | 35: 96 h Oncorhynchus mykiss mg/L LC50 0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through |           |

### 12.2. Persistence and degradability

This product doesn't contain any persistent substances

The surface active components used in this product fulfill all of the biodegradability requirements of EC regulation 648/2004 (Detergents Regulation)

The surface active components used in this product are anaerobically biodegradable.

### 12.3. Bioaccumulative potential

This product does not contain any bioaccumulating substances.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

### 12.6. Other adverse effects

This product does not contain PCM or nitromusk perfume components.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### General

Disposal should be in accordance with applicable regional, national and local laws and regulations

## SECTION 14: Transport information

|             |               |
|-------------|---------------|
| <b>ADR</b>  | Not regulated |
| <b>IMDG</b> | Not regulated |
| <b>RID</b>  | Not regulated |
| <b>IATA</b> | Not regulated |

## SECTION 15: Regulatory information

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

Ensure all national/local regulations are observed

Regulation (CE) No. 648/2004 of 31 March 2004 on detergents:

|                       |      |
|-----------------------|------|
| non-ionic surfactants | < 5% |
| parfum, Limonene      |      |

**Water hazard class (WGK)**                      slightly hazardous to water (WGK 1)

### 15.2. Chemical safety assessment

No information available

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3

H319 - Causes serious eye irritation  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H226 - Flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways

### Classification procedure

Calculation method

### Revision Note

SDS sections updated, 4, 9.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet