



MATERIAL SAFETY DATA SHEET

According to 2001/58EC

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Revised edition no : 1

Date : 13 / 12 / 2005

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Limescale remover**CODE: 311000001**

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Trade name : Limescale remover
Type of product : Liquid.
Use : Domestic.
Company identification : ECOVER BELGIUM NV
Industrieweg 3
2390 Malle Belgique-Belgie
Phone : +32 (0)3 309 25 00
Fax : +32 (0)3 311 72 70
Emergency phone nr : +32 (0)70 245 245 (Antipoison Centre Belgium)
Responsible for placing on the market : See address above.

2 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation : Preparation.
Components : This product contains hazardous components (Directive 67/548/EEC).
Composition : Regulation (CE) No. 648/2004 of 31 March 2004 on detergents:
< 5% : - Nonionic surfactants
Perfumes
GERANIOL, HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE,
LINALOOL, LIMONENE.

Substance name	Contents	CAS No	EC No	Index No	Classification
Citric acid	> 10 %	77-92-9	201-069-1	----	Xi; R36/37/38
Alkyl Poly Glycoside C8-10	Between 1 and 10 %	68515-73-1	POLYMER	----	Xi; R41
Perfume	Between 0.1 and 1 %	----	----	----	Xn; R65 Xi; R38 R43 R52-53
Geraniol	Between 0.01 and 0.1 %	106-24-1	203-377-1	----	Xi; R38 R43
Limonene (D-)	Between 0.01 and 0.1 %	5989-27-5	227-813-5	601-029-00-7	R10 Xi; R38 R43 N; R50-53
Linalool	Between 0.01 and 0.1 %	78-70-6	201-134-4	----	
Hydroxymethylpentyl cyclohexene carboxaldehyde	Between 0.01 and 0.1 %	31906-04-4	250-863-4	----	R43

INCI : CITRIC ACID
CAPRYL GLUCOSIDE
PARFUM
LIMONENE
GERANIOL
LINALOOL
HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE

3 HAZARDS IDENTIFICATION

Hazards identification : According to the Preparation Directive 1999/45/EC this product is classified as:
Irritating.
Risk Phrases : R36/37/38 : Irritating to eyes, respiratory system and skin.
Symptoms relating to use
- Inhalation : Overexposure may cause :
Cough.
Sore throat.
Breathing difficulties.
Shortness of breath.
- Skin contact : Irritating to skin.

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- Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis.
- Eye contact : Irritation to eyes. Redness, pain.
 - Ingestion : Burning feeling in case of ingestion of large amounts. Stomachache.

4 FIRST AID MEASURES**First aid measures**

- Inhalation : Assure fresh air breathing. Seek medical advice.
 - Skin contact : Rinse affected area thoroughly with water to remove concentrated product. Remove contaminated clothing. Seek medical attention if ill effect or irritation develops.
 - Eye contact : Rinse immediately and for at least 15 minutes with copious amounts of water (also assure adequate flushing under the eyelids and if possible after having removed contact lenses). Bring the victim to an ophthalmist.
 - Ingestion : Rinse mouth. Do not induce vomiting. Give water to drink. Seek medical advice.
- Note to physician** : No specific recommendations.
- Workplace equipment** : No specific recommendations.

5 FIRE-FIGHTING MEASURES

- Specific hazards** : None.
- Extinguishing media**
 - Suitable extinguishing media : All extinguishing media can be used.
 - Unsuitable extinguishing media : None.
- Protection against fire** : Exercise caution when fighting any chemical fire. See Heading 8.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Spill area may be slippery. Avoid contact with skin and eyes. Equip cleanup crew with proper protection. See Heading 8.
- Environmental precautions** : Avoid release to the environment.
- Clean up methods** : 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.

7 HANDLING AND STORAGE

- Protection against fire** : Not expected to be a fire/explosion hazard under normal conditions of use.
- Storage** : Keep only in the original container in a cool, well ventilated place. Keep out of the reach of children.
- Handling** : Avoid contact with skin and eyes.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protection**
 - Skin protection : Wear waterproof gloves (preferably PVC, neoprene, butyl or natural rubber) and acid protective clothing when taking up intensively material which is accidentally

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

- released.
- Wash contaminated clothing before re-using.
- Eye protection : Wear safety goggles when clearing accidentally released material and if there is a risk of splashing.
Contact lenses increase the risk of eye injuries in case of eye contact.
- Respiratory protection : Ensure sufficient ventilation or better a gas filter (type B).
- Environment protection see § 6

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C : Liquid.
- Colour : Colourless.
- Odour : Citrus fruits.
- pH value (concentrated product) : 1,9
- Density : 1,05 kg/l
- Viscosity at 25°C [mPa.s] (Brookfield LVT) : 10
- Solubility in water : Good.
- Flash point [°C] : > 100
- Volatile Organic Compounds (%) : 0.2
- Explosion limits : None.
- Oxidising properties : None.

10 STABILITY AND REACTIVITY

- Stability and reactivity : No decomposition under normal conditions of storage and use.
- Conditions to avoid : Do not store <0°C and >40°C.
- Materials to avoid : Do not mix with other cleaning products (and certain not with chlorous products).
Bases.
- Hazardous decomposition products : None under normal conditions.

11 TOXICOLOGICAL INFORMATION

- Eye irritatie (RBC test: Mean Indices Ocular Irritancy) : No data available.
- Skin irritation (RBC test: Denaturation Index) : No data available. (Sodiumdodecylsulfate= 100%)
- Evaluation of the security for the human health
- Dermal : Irritation due to the composition.
- Ocular : Irritation due to the composition.
- Ingestion : Hardly toxic (LD 50 rat-oral-theoretical 5000-15000 ppm).
- Sensitization : This product contains sensitizing fragrance components > 100 ppm: see § 2 and 15.
- Note : Contains only ELINCS or EINECS registered raw materials and does not contain any ingredients known to be mutagenic, carcinogenic, teratogenic or reproduction toxic (R45,46,47,49,60,61,63,64, EU 97/C234, 67/548/EEC, 88/379/EEC, OSHA, NTP, IARC/ARAB (cat 1-3)).

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12 ECOLOGICAL INFORMATION

Ecological effects information

Biodegradation [%] Sapromat respirometry test (OECD 301 F) : 86

EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201) : > 100 Hardly toxic.

48 Hour EC50 Daphnia magna [ppm] (OECD 202) : > 100 Hardly toxic.

Remarks : Ecover products do not contain any bioaccumulating raw materials and no PCM or nitromusk perfume components. The surface active components used in this product fulfill all of the biodegradability requirements of EC regulation 648/2004.

13 DISPOSAL CONSIDERATIONS

General : Dispose in a safe manner in accordance with local/national regulations.

Product : Waste of this product is considered chemical waste. The legislation concerning disposal of waste can differ from one country/state to another. The disposal should therefore be done according to national or local waste legislation. If in doubt, ask the local waste management authority for advice (also see § 6 and § 8 when disposing of).

Packaging : The empty packaging of this product is not subject to ADR. Cleaned empty packaging (including labels and caps) is fully recyclable (HDPE + PP); they may be collected selectively for recycling according to national or local waste legislation. Uncleaned packaging should be disposed of as chemical waste.

14 TRANSPORT INFORMATION

General information : Not classified.

15 REGULATORY INFORMATION

Symbol(s)



R Phrase(s) : R36/37/38 : Irritating to eyes, respiratory system and skin.

S Phrase(s) : S2 : Keep out of the reach of children.
 S25 : Avoid contact with eyes.
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S46 : If swallowed seek medical advice immediately and show this container or label.

EEC Composition of detergents : < 5% : - Nonionic surfactants
 Perfumes
 GERANIOL, HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE,
 LINALOOL, LIMONENE.

16 OTHER INFORMATION

Training advice : For correct use of this product: see Technical Data Sheet.

List of relevant R phrases (heading 2) : R10 : Flammable.
 R36/37/38 : Irritating to eyes, respiratory system and skin.
 R38 : Irritating to skin.
 R41 : Risk of serious damage to eyes.
 R43 : May cause sensitization by skin contact.

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	R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 : Harmful : may cause lung damage if swallowed.
Sources of key data used	: MSDS and additional literature data of the respective suppliers. Chemical cards, 12th edition, 1997, ed. MIA, VMCI, Samson Comprehensive guide to chemical resistant best gloves for various amounts of exposure, 1999, ver.3.5 www
Revision	: First version of this MSDS in this new format.
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The contents and format of this SDS are in accordance with EEC Commission Directive 2001/58EC.

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