

EU SAFETY DATA SHEET in accordance with EU-Directive 2001/58/EC

Latest update 1/03/2005

# LIMESCALE REMOVER

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade name LIMESCALE REMOVER

Supplier details **ECOVER BELGIUM NV** 

Adress Industrieweg 3 2390 Oostmalle Belgium

0032 (0)3 312 88 77 Telephone Fax 0032 (0) 311 72 70

0032 (0)70 245 245 Emergency phone +32 0473 94 49 97 Telephone manager on guard Composition Limescale remover

2. COMPOSITION/INFORMATION ON THE INGREDIENTS

Ingredients according to 67/548/EEC	% w/w	Symbol	CAS / EINECS-ELINCS	
Citric acid	5-15	Xi, R36	77-92-9/201-069-1	
Non-ionic sugar detergent	1-5	Xi R41		

#### 3. HAZARDS IDENTIFICATION

Irritant

Fire

No specific risks when used normally.

Inhalation

In case of inhalation of large amounts, risk of sore throat, coughing, shortness of breath,

difficulty in breathing, caustic.

Skin contact

Irritation. Prolonged and repeated contact with neat product may cause dermatitis.

Eye contact

Irritation. Pain, redness. May cause cornea damage.

Ingestion

Burning feeling in case of ingestion of large amounts. Stomachache.

#### 4. FIRST AID MEASURES

Inhalation In case of inhalation of high vapour concentrations, move the victim to fresh air. Consult a doctor.

Skin contact

Rinse affected area thoroughly with water to remove concentrated product. Remove contaminated

clothing. Seek medical attention if irritation occurs or persists.

Eye contact

Rinse immediately and for a long time with plenty of water (also assure adequate flushing under the eyelids and if possible after having removed contact lenses). Seek medical attention if the irritation

persists.

Ingestion

Wash out mouth and do not induce vomiting! In case of ingestion of large amounts (1 glass), let the victim drink plenty of water in orde to dilute the acid and consult a doctor.

Workplace equipment

Install an eye shower on the premises.

Hints for the physician

No specific recommendations.

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5. FIRE-FIGHTING MEASURES

Suitable fire extinguishing

All extinguishing agents are allowed in case of fire in the immediate surroundings.

media

Non suitable media None.

Special exposure hazards None.

Protection against fire and

explosions

Observe normal precautions for handling chemicals. For personal protection see also

§ 8.

6. ACCIDENTAL RELEASE MEASURES

Environmental precaution Do not allow concentrated or diluted product to enter the soil or surface water.

Methods for cleaning up Recover spilled material as much as possible in a clean container for reuse. Large

amounts of spilled product must be collected with a squeegee and disposed of as chemical waste according to applicable regulations. Rinse away remainder with water.

Personal precaution Spilled product may render the floor slippery. Avoid contact with unprotected skin and

eyes. Wear protective clothing (see § 8).

7. HANDLING AND STORAGE

Handling Avoid contact with unprotected skin and eyes.

Fire-and explosion protection No specific recommendations.

Storage Store in a cool and frost-free place in a closed packaging, out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin protection Normal use excludes any direct contact with the skin. Wear acid-resistant protective

clothing and waterproof gloves (preferably PVC, neoprene, butyl or natural rubber) when clearing accidentally released product. Thoroughly wash contaminated clothing.

Eye protection Wear safety goggles in case of intensive use or when clearing accidentally released

material. Contact lenses increase the risk of eye injuries in case of eye contact.

Respiratory protection Ventilation. Provide respiratory protection (type B) in case of clearing accidentally

released product or high vapour concentrations.

Environment protection see § 6

Ingredients with limit values regarding the working area

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid Relative density 20°C 1,05 kg/l

Colour colourless pH conc 20°C 1,9 pH 1% -

Odour citrus Viscosity 25°C Brookfield LVT 10 mPa.s

Flash point >100°C Solubility in water 20°C good

Self-ignition temperature None.

Oxydation properties None.

10. STABILITY AND REACTIVITY

Stability 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 (especially not with chlorous products).

Hazardous decomposition

products

None.

11. TOXICOLOGICAL INFORMATION Evaluation

Skin irritation (RBC test: Denaturation Index) - % (Sodiumdodecylsulphate = 100%)

Eye irritatie (RBC test: Mean Indices Ocular Irritancy)

Remark Skin test and eye test not determined.

- Skin Irritation due to the composition of the material.

- Eye Irritation due to the composition of the material.

Oral Contains only raw materials having an oral toxicity (rat) of more than 3000 mg/kg. Hardly toxic

(LD50 rat-orl-theo 5000-15000 ppm).

Sensibilisation To the best of our knowledge, this product contains no sensitizing raw materials.

Remark 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		Evaluation	
Biodegradation acc. to Sapromat respirometry test (OECD 301F)	86 %	completely biodegradable	
Biodegradation acc. to Coupled Units test (OECD 303A)	%	not tested	
Biodegradation acc. to Stable Metabolite test	%	not tested	
Daphnia toxicity (Daphnia magna) EC 50 48h OECD 202	>100 ppm	hardly not toxic	
Rotifer toxicity (Brachionus calyciflorus) EC50 24h ASTM E1440-91	ppm	not tested	
Algal toxicity (selenastrum capricornutum) EC50 72h OECD 201	>100 ppm	hardly not toxic	
Bacterial toxicity EC 50 (Microtox EC50 15min) DIN 38-412-L34	ppm	not tested	

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 al of the biodegradability requirements in line with EU directives 73/404 and 73/404 (and their ammendments).

#### 13. DISPOSAL CONSIDERATIONS

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 authoroty for advice. (also see § 6 and § 8 when disposing of).

Packaging

Packaging of this product should be disposed of as chemical waste according to national or local waste legislation. The empty packaging is not subject to ADR.

### 14. TRANSPORT INFORMATION

This product is not subject to ADR regulations.

Road transport

ADR/RID Class Number

UN Nº

ADR Symbol

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## LIMESCALE REMOVER

#### 15. REGULATORY INFORMATION

Symbols



Xi Irritant

R-phrases

R36/37/38 Irritating to eyes, respiratory system and skin.

S- phrases

S2 Keep out of reach of the children.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water

S46 If swallowed, seek medical advice immediately & show container/label.

WGK classification (Germany) Not generally hazardous to water.

#### **16. OTHER INFORMATION**

For correct use of this product: see Technical Data Sheet

### Consulted literature

Chemiekaarten, 12th edition, 1997, ed. MIA, VMCI, Samson

Comprehensive guide to chemical resistant best gloves for various amounts of exposure, 1999, ver.3.5 www MSDS of the respective suppliers.

This information herein only regards the product mentioned in § 1 and does not necessarily apply to its use combined with any other product(s) or specific process. This information is accurate and complete to our best current knowledge and is presented in good faith but without any warranty, express or implied. It remains the responsibility of the user to ensure himself this information is applicable and complete with respect to the intended use.

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