



MATERIAL SAFETY DATA SHEET

According to 2001/58EC

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Revised edition no : 4

Date : 14 / 3 / 2006

Supersedes : 12 / 1 / 2006

Stain remover**311090001**

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

Trade name : Stain 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. HAZARDS IDENTIFICATION

Hazards identification : Not classified as dangerous product.
Symptoms relating to use
- Inhalation : None under normal conditions.
- Skin contact : Prolonged or repeated contact may cause skin to become dry.
- Eye contact : Irritation to eyes.
- Ingestion : Nausea.
Diarrhea.
Vomiting.
Abdominal pain.

3. 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% : - Anionic surfactants
5% - 15% : - Nonionic surfactants
Perfumes - Enzymes - Preservatives
LINALOOL.
2-BROMO-2-NITROPROPANE-1,3-DIOL.

Substance name	Contents	CAS No	EC No	Index No	Classification
Alkyl Poly Glycoside C10-16	: Between 1 and 10 %	110615-47-9	POLYMER	-----	Xi; R38-41
Sodium Lauryl Ether Sulfate	: Between 1 and 10 %	68891-38-3	POLYMER	-----	Xi; R38-41
Ethanol	: Between 1 and 10 %	64-17-5	200-578-6	603-002-00-5	F; R11
Perfume	: Between 0.1 and 1 %	-----	-----	-----	Xn; R65
Subtilisin	: Between 0.01 and 0.1 %	9014-01-1	232-752-2	647-012-00-8	Xi; R36/38 R42
Linalool	: Between 0.01 and 0.1 %	78-70-6	201-134-4	-----	
2-bromo-2-nitropropane-1,3-diol	: Between 0.01 and 0.1 %	52-51-7	200-143-0	603-085-00-8	Xn; R21/22 Xi; R37/38-41 N; R50
Cellulase	: Between 0.01 and 0.1 %	9012-54-8	232-734-4	647-002-00-3	R42
INCI	: LAURYL POLYGLUCOSE SODIUM LAURETH SULFATE ALCOHOL PARFUM Subtilisin LINALOOL 2-BROMO-2-NITROPROPANE-1,3-DIOL				



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3. COMPOSITION / INFORMATION ON INGREDIENTS (continued)

Cellulase

4. FIRST AID MEASURES

First aid measures

- Inhalation : Not relevant.
 - Skin contact : Rinse immediately with plenty of water.
 - Eye contact : Rinse for a long time with cold, running water.
 - Ingestion : Drink promptly large quantities of milk, egg whites, gelatin solutions, or if these are not available, drink large quantities of water. Do not induce vomiting. Seek medical attention if ill effect develops.
- 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. Wear proper protective equipment. 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 : Store in a cool and frost-free place, out of the reach of children.
- Handling : Avoid contact with skin and eyes. Wear waterproof gloves (preferably neoprene or nitrile rubber) in case of intensive use or contact with undiluted product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protection
- Skin protection : Wear waterproof gloves when taking up intensively material which is accidentally released. Persons with a sensitive skin are also recommended to wear waterproof gloves.
 - Eye protection : Wear safety goggles when clearing accidentally released material and if there is a risk of splashing.
 - Respiratory protection : Not relevant.
- Environment protection see § 6

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Occupational Exposure Limits : Ethanol : MAC [mg/m³] : 1900
Ethanol : MAC [ppm] : 1000
Subtilisin : TLV - ACGIH [mg/m³] : 0.00006

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C : Liquid.
Colour : Colourless.
Odour : Lavender.
pH value (concentrated product) : 6,5
Density : No data available.
Viscosity at 25°C [mPa.s] (Brookfield LVT) : 7000
Solubility in water : Good.
Flash point [°C] : > 60
Volatile Organic Compounds (%) : 1.352
Explosion limits : None.
Oxidising properties : None.

10. STABILITY AND REACTIVITY

Stability and reactivity : Even when properly stored, the proteases will lose their activity. Therefore it is recommended to consume the product within a year.
Conditions to avoid : Do not store <0°C and >40°C.
Materials to avoid : Acids.
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** : Not or only slightly irritant due to the composition.
- **Ocular** : Irritation due to the composition.
- **Ingestion** : Hardly toxic (LD 50 rat-oral-theoretic >14000 ppm).
Sensitization : The used proteases (see §2 and 8) can sensitize as aerosol by inhalation and can lead to skinirritation by prolonged contact by persons with sensitive skin.
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)).

12. ECOLOGICAL INFORMATION

Ecological effects information
Biodegradation [%] Sapromat respirometry test (OECD 301 F) : 87

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12. ECOLOGICAL INFORMATION (continued)

EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201) : 288 Hardly toxic.

48 Hour EC50 Daphnia magna [ppm] (OECD 202) : 30.7 Slightly 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 recycable (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) : None.

R Phrase(s) : None.

S Phrase(s) : S2 : Keep out of the reach of children.

EEC Composition of detergents : < 5% : - Anionic surfactants
 5% - 15% : - Nonionic surfactants
 Perfumes - Enzymes - Preservatives
 2-BROMO-2-NITROPROPANE-1,3-DIOL.
 LINALOOL.

16. OTHER INFORMATION

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

List of relevant R phrases (heading 2) : R11 : Highly flammable.
 R21/22 : Harmful in contact with skin and if swallowed.
 R36/38 : Irritating to eyes and skin.
 R37/38 : Irritating to respiratory system and skin.
 R38 : Irritating to skin.
 R41 : Risk of serious damage to eyes.
 R42 : May cause sensitization by inhalation.
 R50 : Very toxic to aquatic organisms.
 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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16. OTHER INFORMATION (continued)

The contents and format of this SDS are in accordance with EEC Commission Directive 2001/58EC.

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