



MATERIAL SAFETY DATA SHEET

According to 2001/58EC

Page : 1

Revised edition no : 2

Date : 29 / 8 / 2006

Supersedes : 13 / 12 / 2005

Biological washing powder

CODE: 312020002

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Trade name : Biological washing powder
Type of product : Powder.
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 - Soap
5% - 15% : - Anionic surfactants
15% - 30% : - Oxygenbased bleaching agents - Zeolites
Perfumes - Enzymes
LINALOOL, LIMONENE.

Substance name	Contents	CAS No	EC No	Index No	Classification
Diodium disilicate	> 10 %	13870-28-5	237-623-4	-----	Xi; R41
Sodium carbonate peroxyhydrate	> 10 %	15630-89-4	239-707-6	-----	O; R8 Xn; R22 Xi; R41
Fatty Alcohol Sulfate C12-18	> 10 %	68955-19-1	273-257-1	-----	Xi; R38-41
Ethoxylated rapeseed methyl esters	Between 1 and 10 %	158318-69-5	-----	-----	Xi; R36
Perfume	Between 0.1 and 1 %	-----	-----	-----	R10 Xn; R65 Xi; R38 R43 N; R50-53
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
Subtilisin	Between 0.01 and 0.1 %	9014-01-1	232-752-2	647-012-00-8	Xi; R36/38 R42
Amylase, a	Between 0.01 and 0.1 %	9000-90-2	232-565-6	647-015-00-4	R42
Linalool	Between 0.01 and 0.1 %	78-70-6	201-134-4	-----	

*** INCI** : Disodium Disilicate
SODIUM CARBONATE PEROXIDE
SODIUM C12-18 ALKYL SULFATE
Fatty acid methyl esters ethoxylates
PARFUM
LIMONENE
Subtilisin
Amylase, a
LINALOOL



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3 HAZARDS IDENTIFICATION

- Hazards identification** : Not classified as dangerous product.
- Risk Phrases** : None.
- Symptoms relating to use**
- **Inhalation** : None under normal conditions.
When not cleaned on time, substances containing enzymes can be released resulting in sensitization.
 - **Skin contact** : Prolonged or repeated contact may cause skin to become dry or irritated.
 - **Eye contact** : Irritation to eyes.
 - **Ingestion** : Nausea.
Vomiting.
Diarrhea.
Abdominal pain.

4 FIRST AID MEASURES

- First aid measures**
- **Inhalation** : Assure fresh air breathing.
 - **Skin contact** : Rinse immediately with plenty of water.
Seek medical attention if ill effect or irritation develops.
 - **Eye contact** : Rinse immediately and for a long time with plenty of water. Seek medical attention if the irritation persists. Inadequate first aid may lead to persisting eye complaints.
 - **Ingestion** : Wash out mouth and do not induce vomiting. Seek medical attention.
- Note to physician** : No specific recommendations.
- Workplace equipment** : No specific recommendations.

5 FIRE-FIGHTING MEASURES

- Specific hazards** : None.
- Extinguishing media**
- **Suitable extinguishing media** : Alcoholresistant foam.
 - **Unsuitable extinguishing media** : Contains oxidizing percarbonate that can release oxygen by activation. Therefore don't sprinkle water on dry product.
Carbon dioxide.
Powder.
- Protection against fire** : Exercise caution when fighting any chemical fire.
Do not enter fire area without proper protective equipment, including respiratory protection.
See Heading 8.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Clean-up released powder in time.
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 and a water and dust vacuum cleaner.

Biological washing powder**CODE: 312020002****7 HANDLING AND STORAGE**

- Protection against fire** : Avoid:
Heat.
- Storage** : Store in a cool and frost-free place in a closed packaging.
Keep out of the reach of children.
Keep away from combustible material.
Acids.
Reducing agents.
Prevent moisture contact.
- Handling** : Avoid dust production.
Avoid contact with skin and eyes.

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 when doing a hand-wash.
 - **Eye protection** : Wear chemical goggles when clearing accidentally released material.
 - **Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
- Environment protection see § 6**
- Occupational Exposure Limits** : Subtilisin : TLV - ACGIH [mg/m³] : 0.00006

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C** : Granular solid.
- Colour** : White.
- Odour** : Lavender.
- pH value (concentrated product)** : 1% 10,25
- Density** : 0.85 g/l
- Viscosity at 25°C [mPa.s] (Brookfield LVT)** : -
- Solubility in water** : Good.
- Flash point [°C]** : > 100
- Volatile Organic Compounds (%)** : 0.2
- Explosion limits** : None.
- Oxidising properties** : This product contains oxidizing sodium carbonate peroxide

10 STABILITY AND REACTIVITY

- Stability and reactivity** : Even when properly stored, the sodium carbonate peroxide will lose his activity. Therefore it is recommended to consume the product within a year.
Even when properly stored, the proteases will lose their activity. Therefore it is recommended to consume the product within a year.
- Conditions to avoid** : Moisture.
Heat.
Do not store <0°C and >40°C.
- Materials to avoid** : Organic compounds.
Acids.
Combustibles.
Reducing agents.
Metals.
- Hazardous decomposition products** : None under normal conditions.

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11 TOXICOLOGICAL INFORMATION

Eye irritatie (RBC test: Mean Indices Ocular Irritancy) : No data available.

Skin irritation (RBC test: Denaturation Index) : No data available.

Evaluation of the security for the human health

- **Dermal** : Slightly irritating
- **Ocular** : Irritation due to the composition.
- **Ingestion** : Hardly toxic (LD 50 rat-oral-theoretic 500-5000 ppm).

Sensitization : This product contains sensitizing fragrance components > 100 ppm: see § 2 and 15.
 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) : 87.4 Biodegradable.

EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201) : 114 Hardly toxic.

48 Hour EC50 Daphnia magna [ppm] (OECD 202) : 54 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 Product : Dispose in a safe manner in accordance with local/national regulations.

Packaging : 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).
 : The empty packaging (not containing any residues) of this product can be disposed of as paper waste according to national or local waste legislation. Packaging containing residues of this product should be disposed of as chemical waste. Empty packaging is not subject to ADR.

14 TRANSPORT INFORMATION

General information : Not classified.

15 REGULATORY INFORMATION

R Phrase(s) : None.

S Phrase(s) : S2 : Keep out of the reach of children.
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.



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15 REGULATORY INFORMATION (continued)

EEC Composition of detergents : S46 : If swallowed seek medical advice immediately and show this container or label.
: < 5% : - Nonionic surfactants - Soap
5% - 15% : - Anionic surfactants
15% - 30% : - Oxygenbased bleaching agents - Zeolites
Perfumes - Enzymes
LINALOOL, LIMONENE.

16 OTHER INFORMATION

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

List of relevant R phrases (heading 2) : R8 : Contact with combustible material may cause fire.
R10 : Flammable.
R22 : Harmful if swallowed.
R36 : Irritating to eyes.
R36/38 : Irritating to eyes and skin.
R38 : Irritating to skin.
R41 : Risk of serious damage to eyes.
R42 : May cause sensitization by inhalation.
R43 : May cause sensitization by skin contact.
R50/53 : Very toxic 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
Chemiekaarten, 21th edition, 2006, ed. MIA, VMCI, Samson.

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

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