



# MATERIAL SAFETY DATA SHEET

## According to Regulation (EC) 1907/2006

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Revised edition no : 5

Date : 14 / 7 / 2009

Supersedes : 24 / 11 / 2006

**Laundry powder top & front loader (USA)****31201100**

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

**Trade name** : Laundry powder top & front loader (USA)  
**Type of product** : Powder.  
**Use** : Domestic.  
**Company identification** : ECOVER BELGIUM NV  
Industrieweg 3  
2390 Malle Belgique-Belgie  
**e-mail:** : sds@ecover.com  
**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.  
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.  
Diarrhea.  
Vomiting.  
Abdominal pain.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance / Preparation** : Preparation.  
**Components** : This product is not hazardous but contains hazardous components.  
**Composition** : Regulation (CE) No. 648/2004 of 31 March 2004 on detergents:  
< 5% : - Soap  
5% - 15% : - Anionic surfactants  
15% - 30% : - Zeolites  
Enzymes

Substance name	Contents	CAS No	EC No	Index No	Classification
Sodium carbonate	> 30 %	497-19-8	207-838-8	011-005-00-2	Xi; R36
Zeolite	> 15 < 30 %	1318-02-1	215-283-8	-----	
Fatty Alcohol Sulfate C12-18	> 5 < 15 %	68955-19-1	273-257-1	-----	Xi; R38-41
Alcohol(C12-18)EO(2-5)	> 5 < 15 %	68213-23-0	500-201-8	-----	Xn; R22 Xi; R41
Sodium metasilicate	> 5 < 15 %	10213-79-3	229-912-9	-----	C; R34 Xi; R37
Subtilisin	< 0.1 %	9014-01-1	232-752-2	647-012-00-8	Xi; R36/38 R42

**INCI** : SODIUM CARBONATE  
ZEOLITE  
SODIUM C12-18 ALKYL SULFATE  
Alcohol(C12-18)EO(2-5)  
SODIUM METASILICATE



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### 3. COMPOSITION / INFORMATION ON INGREDIENTS (continued)

Subtilisin

### 4. FIRST AID MEASURES

**First aid measures**

- Inhalation : Not relevant.
  - Skin contact : Flush 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! Let the victim drink 2 glasses of water on his own. 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 : Contains oxidizing percarbonate that can release oxygen by activation. Therefore don't sprinkle water on dry product.
- Protection against fire** : Exercise caution when fighting any chemical fire.  
See Heading 8.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : 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** : Collect usable powder residues in a clean, lockable container for reuse. Sweep polluted powder as chemical waste and remove the residus with water and plunger.

### 7. HANDLING AND STORAGE

- Protection against fire** : Not expected to be a fire/explosion hazard under normal conditions of use.
- Storage** : Store in dry, cool area.
- Handling** : 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.
- Eye protection : Wear chemical goggles when clearing accidentally released material.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)**

- **Respiratory protection** : None under normal conditions.  
Wear a dust mask P2 when clearing accidentally released material.
- Environment protection see § 6**
- Occupational Exposure Limits** : Zeolite : MAC [mg/m<sup>3</sup>] : 6  
Subtilisin : TLV - ACGIH [mg/m<sup>3</sup>] : 0.00006

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state at 20 °C** : Powder.
- Colour** : White.
- Odour** : Odourless.
- pH value (concentrated product)** : 1% 10,35
- Density** : 0,9 kg/l
- Viscosity at 25°C [mPa.s] (Brookfield LVT)** : -
- Solubility in water** : Good.
- Flash point [°C]** : > 100
- Volatile Organic Compounds (%)** : 0
- Explosion limits** : No data available.
- 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.
- Conditions to avoid** : Moisture.  
Heat.
- 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.
- 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 500-5000 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)).

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## 12. ECOLOGICAL INFORMATION

### Ecological effects information

**Biodegradation [%] Sapromat respirometry test (OECD 301 F)** : Biodegradable.

**EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201)** : No data available.

**48 Hour EC50 Daphnia magna [ppm] (OECD 202)** : No data available.

**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 (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

**Symbol(s)** : None.

**R Phrase(s)** : None.

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

**EEC Composition of detergents** : < 5% : - Soap  
5% - 15% : - Anionic surfactants  
15% - 30% : - Zeolites  
Enzymes

## 16. OTHER INFORMATION

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

**List of relevant R phrases (heading 3)** : R22 : Harmful if swallowed.  
R34 : Causes burns.  
R36 : Irritating to eyes.  
R36/38 : Irritating to eyes and skin.  
R37 : Irritating to respiratory system.  
R38 : Irritating to skin.  
R41 : Risk of serious damage to eyes.  
R42 : May cause sensitization by inhalation.



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**16. OTHER INFORMATION (continued)**

**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** : Revision - See : \*

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The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006

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