



# MATERIAL SAFETY DATA SHEET

## According to Regulation (EC) 1907/2006

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Revised edition no : 3

Date : 1 / 9 / 2006

Supersedes : 5 / 1 / 2006

**Dishwasher tablets****12122005**

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

Trade name : Dishwasher tablets  
Type of product : Solid.  
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.  
Responsible for placing on the Swiss market : Biodis s.a.  
Rue des Crétêts 99  
2300 La Chaux-de-Fonds  
Tel: +41(32)9264833  
Fax: +41(32)9269496

### 2. HAZARDS IDENTIFICATION

Hazards identification : According to the Preparation Directive 1999/45/EC this product is classified as:  
Irritating.  
Risk Phrases : R41 : Risk of serious damage to eyes.  
Symptoms relating to use  
- Inhalation : None under normal conditions.  
- Skin contact : Not expected to present a significant skin hazard.  
- Eye contact : Irritation to eyes.  
Risk of serious damage to eyes.  
- Ingestion : Nausea.  
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% : - Nonionic surfactants  
15% - 30% : - Oxygenbased bleaching agents  
Enzymes - Perfumes  
LIMONENE.

Substance name	Contents	CAS No	EC No	Index No	Classification
Sodium citrate	> 30 %	6132-04-3	200-675-3	----	Xi; R36/37/38
Sodium carbonate peroxyhydrate	Between 15 and 30 %	15630-89-4	239-707-6	----	O; R8 Xn; R22 Xi; R41
Sodium carbonate	Between 5 and 15 %	497-19-8	207-838-8	011-005-00-2	Xi; R36
Diodium disilicate	Between 5 and 15 %	13870-28-5	237-623-4	----	Xi; R41
Iso-octyl glucoside	Between 0.1 and 1 %	54549-23-4	259-216-0	----	Xi; R41
D-glucitol	Between 0.1 and 1 %	50-70-4	200-061-5	----	Xi; R36
Subtilisin	Between 0.1 and 1 %	9014-01-1	232-752-2	647-012-00-8	Xi; R36/38 R42
Perfume	Between 0.01 and 0.1 %	----	----	----	Xi; R38



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

Amylase, a	:	Between 0.01 and 0.1 %	9000-90-2	232-565-6	647-015-00-4	R43 N; R50-53
Limonene (D-)	:	Between 0.01 and 0.1 %	5989-27-5	227-813-5	601-029-00-7	R42 R10 Xi; R38 R43 N; R50-53

\* INCI : SODIUM CITRATE  
SODIUM CARBONATE PEROXIDE  
SODIUM CARBONATE  
Disodium Disilicate  
Iso-octyl glucoside  
SORBITOL  
Subtilisin  
PARFUM  
Amylase, a  
LIMONENE

**4. FIRST AID MEASURES**

**First aid measures**

- Inhalation : Not relevant.
  - Skin contact : Rinse immediately with plenty of water.
  - 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 : Wash out mouth and do not induce vomiting! Let the victim drink 2 glasses of water on his own. 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 : 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.

**Dishwasher tablets****12122005****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 in a closed packaging.  
Keep out of the reach of children.  
Keep away from combustible material.  
Acids.  
Reducing agents.
- Handling** : Avoid contact with skin and eyes.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Personal protection**
- **Skin protection** : No special clothing/skin protection equipment is recommended under normal conditions of use.  
Wear waterproof gloves when taking up intensively material which is accidentally released.
  - **Eye protection** : Wear safety goggles when clearing accidentally released material.
  - **Respiratory protection** : None under normal conditions.
- Environment protection see § 6**
- Occupational Exposure Limits** : Subtilisin : TLV - ACGIH [mg/m<sup>3</sup>] : 0.00006

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state at 20 °C** : Tablets.
- Colour** : White/Yellow.
- Odour** : Citrus fruits.
- pH value** : 1% 10,8
- Density** : -
- Viscosity at 25°C [mPa.s] (Brookfield LVT)** : -
- Solubility in water** : Good.
- Flash point [°C]** : > 100
- Volatile Organic Compounds (%)** : 0.09
- 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.
- Conditions to avoid** : Moisture.  
Do not store <0°C and >30°C.
- Materials to avoid** : Acids.  
Reducing agents.  
Combustibles.
- Hazardous decomposition products** : None under normal conditions.  
Oxygen.

**11. TOXICOLOGICAL INFORMATION**

- Eye irritatie (RBC test: Mean Indices Ocular Irritancy)** : No data available.
- Skin irritation (RBC test: Denaturation)** : No data available.

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**11. TOXICOLOGICAL INFORMATION (continued)**

**Index)**

**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-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)).

**12. ECOLOGICAL INFORMATION**

**Ecological effects information**

- Biodegradation [%] Sapromat respirometry test (OECD 301 F)** : 100 Biodegradable.
- EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201)** : 297 Hardly toxic.
- 48 Hour EC50 Daphnia magna [ppm] (OECD 202)** : 566 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 (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)**



- R Phrase(s)** : Xi : Irritant
- S Phrase(s)** : R41 : Risk of serious damage to eyes.  
S2 : Keep out of the reach of children.

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**15. REGULATORY INFORMATION (continued)**

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  
15% - 30% : - Oxygenbased bleaching agents  
Enzymes - Perfumes  
LIMONENE.

**16. OTHER INFORMATION**

**Training advice** : For correct use of this product: see Technical Data Sheet.  
**List of relevant R phrases (heading 3)** : R8 : Contact with combustible material may cause fire.  
R10 : Flammable.  
R22 : Harmful if swallowed.  
R36 : Irritating to eyes.  
R36/37/38 : Irritating to eyes, respiratory system and skin.  
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.  
R43 : May cause sensitization by skin contact.  
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Sources of key data used** : MSDS and additional literature data of the respective suppliers.  
**Revision** : Revision - See : \*  
**Print date** : 16 / 10 / 2008

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

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