



# MATERIAL SAFETY DATA SHEET According to 2001/58EC

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Revised edition no : 2

Date : 5/1/2006

Supersedes : 13/12/2005

**Dishwasher tablets****CODE: 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  
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  
15% - 30% : - Oxygenbased bleaching agents  
Perfumes - Enzymes  
LIMONENE.

Substance name	Contents	CAS No	EC No	Index No	Classification
Sodium citrate	> 10 %	6132-04-3	200-675-3	----	Xi; R36/37/38
Sodium percarbonate	> 10 %	15630-89-4	239-707-6	----	O; R8 Xn; R22 Xi; R41
Sodium carbonate	> 10 %	497-19-8	207-838-8	011-005-00-2	Xi; R36
Sodium disilicate	> 10 %	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	----	----	Xi; R36
Perfume	Between 0.01 and 0.1 %	----	----	----	Xn; R65 N; R51-53
Amylase, a	Between 0.01 and 0.1 %	9000-90-2	232-565-6	647-015-00-4	R42
Subtilisin	Between 0.01 and 0.1 %	9014-01-1	232-752-2	647-012-00-8	Xi; R36/38 R42
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

INCI : Trisodiumcitrate dihydrate  
SODIUM CARBONATE PEROXIDE  
SODIUM CARBONATE  
Disodium Disilicate  
Iso-octyl glucoside  
SORBITOL  
PARFUM  
Amylase, a  
Subtilisin  
LIMONENE

## 3 HAZARDS IDENTIFICATION

Hazards identification : Irritating.  
According to the Preparation Directive 1999/45/EC this product is classified as:  
Risk Phrases : R41 : Risk of serious damage to eyes.  
Symptoms relating to use



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### 3 HAZARDS IDENTIFICATION (continued)

- Inhalation : None under normal conditions.  
Prolonged and frequent exposure through inhalation may cause irritation to lungs.
- Skin contact : Irritating to skin.
- Eye contact : Irritation to eyes.  
Risk of serious damage to eyes.
- Ingestion : Nausea.  
Vomiting.  
Abdominal pain.

### 4 FIRST AID MEASURES

**First aid measures**

- Inhalation : Not relevant.
- Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- 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 : Rinse mouth. Give water to drink. Seek medical advice. Do not induce vomiting.
- 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 : Spill area may be slippery.  
Avoid contact with skin and eyes.  
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.  
Keep away from heat.  
Keep away from combustible material, reducing agents and strong acids.
- Handling : Avoid contact with skin and eyes.



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### 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 (preferably neoprene or nitrile rubber) in case of intensive use or contact with undiluted product.
  - 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
- 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.
- Odour : Citrus fruits.
- pH value (concentrated product) : 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 : Heat.  
Moisture.
- Materials to avoid : Alkali.  
Hypochlorite.  
Reducing agents.  
Metals.  
Acids.  
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 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-theoretical 5000-15000 ppm).
- Sensitization : This product contains sensitizing fragrance components > 100 ppm: see § 2 and

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**11 TOXICOLOGICAL INFORMATION (continued)**

**Note** : 15.  
: 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%  
**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 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)**



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



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**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.  
R36/37/38 : 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.  
R51/53 : 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.

**Revision** : First version of this MSDS in this new format.

**Print date** : 24/5/2006

**PACKING**

**Capacity** : 500 g

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

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