



MATERIAL SAFETY DATA SHEET

According to Regulation (EC) 1907/2006

Page : 1

Revised edition no : 3

Date : 21 / 1 / 2009

Supersedes : 5 / 1 / 2006

Automatic dishwashing powder (USA)**31204121**

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

Trade name : Automatic dishwashing powder (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

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Responsible for placing on the market : See address above.

2. HAZARDS IDENTIFICATION

Hazards identification

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 : None under normal conditions.

- Eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Direct contact with the eyes is likely irritating.

- Ingestion : Nausea.
Diarrhea.
Vomiting.
Abdominal pain.

Fire hazard : No specific risks when used normally, but contributes to combustion of other combustible materials.

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% : - Nonionic surfactants
5% - 15% : - Oxygenbased bleaching agents
Perfumes - Enzymes

Substance name	Contents	CAS No	EC No	Index No	Classification
Sodium carbonate peroxyhydrate	> 1 <= 10 %	15630-89-4	239-707-6	----	O; R8 Xn; R22 Xi; R41
Diodium disilicate	> 1 <= 10 %	13870-28-5	237-623-4	----	Xi; R41
Sodium carbonate	> 1 <= 10 %	497-19-8	207-838-8	011-005-00-2	Xi; R36
Perfume	> 0.01 <= 0.1 %	----	----	----	Xi; R38 R43 N; R50-53
Subtilisin	> 0.01 <= 0.1 %	9014-01-1	232-752-2	647-012-00-8	Xi; R36/38 R42
Amylase, a	> 0.01 <= 0.1 %	9000-90-2	232-565-6	647-015-00-4	R42

INCI : SODIUM CARBONATE PEROXIDE
Disodium Disilicate
SODIUM CARBONATE
PARFUM



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31204121

3. COMPOSITION / INFORMATION ON INGREDIENTS (continued)

Subtilisin
Amylase, a

4. FIRST AID MEASURES

First aid measures

- **Inhalation** : Not relevant.
- **Skin contact** : Rinse affected area thoroughly with water to remove concentrated product. Remove contaminated clothing.
- **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** : Drink large quantities of milk or water. 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** : Avoid contact with skin and eyes. Wear proper protective equipment. 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** : Avoid contact with :
Combustible material.
Heat.
In case the packaging gets warm spontaneously, move it to a safe place, empty out and sprinkle abundantly.
- Storage** : Store in a cool and frost-free place in a closed packaging. Keep out of the reach of children. See also § 10.
- Handling** : Avoid contact with skin and eyes. Wear suitable gloves in case of frequent contact with undiluted product.

Automatic dishwashing powder (USA)**31204121****8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Personal protection**

- **Skin protection** : 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** : None under normal conditions.
- Environment protection see § 6**
Occupational Exposure Limits : Subtilisin : TLV - ACGIH [mg/m³] : 0.00006

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C** : Powder.
- Colour** : White.
- Odour** : Citrus fruits.
- pH value (concentrated product)** : 1% 10
- Density** : 1,302 kg/l
- Viscosity at 25°C [mPa.s] (Brookfield LVT)** : -
- Solubility in water** : Good.
- Flash point [°C]** : > 100
- Volatile Organic Compounds (%)** : 0.03
- 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** : Metals.
Organic compounds.
Hypochlorite.
Combustibles.
Acids.
Reducing agents.
- Hazardous decomposition products** : Oxygen.
Overpressure.

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).

Automatic dishwashing powder (USA)**31204121****11. TOXICOLOGICAL INFORMATION (continued)**

- Sensitization** : The used proteases (see §2 and 8) can sensitize as aerosol by inhalation and can lead to skin irritation 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)** : 100 Biodegradable.
- EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201)** : 642 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)** : None.
- R Phrase(s)** : None.
- 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
5% - 15% : - Oxygenbased bleaching agents
Perfumes - Enzymes



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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 3)** : R8 : Contact with combustible material may cause fire.
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.
- 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.
- Print date** : 21 / 1 / 2009

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

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