

**Techno Powder**

**CODE: 32203076**

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

**Trade name** : Techno Powder  
**Type of product** : Powder.  
**Use** : For professional use only.  
Industrial.  
**Company identification** : Ecover Belgium NV  
Industrieweg 3  
2390 Malle Belgium  
**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 is hazardous.  
**Composition** : Regulation (CE) No. 648/2004 of 31 March 2004 on detergents:  
< 5% : - Nonionic surfactants  
15% - 30% : - Oxygenbased bleaching agents  
Enzymes

Substance name	Contents	CAS No	EC No	Index No	Classification
Sodium carbonate peroxyhydrate	: Between 10 and 100 %	15630-89-4	239-707-6	-----	O; R8 Xn; R22 Xi; R41
Diodium disilicate	: Between 10 and 100 %	13870-28-5	237-623-4	-----	Xi; R41
Disodium metasilicate	: Between 1 and 10 %	6834-92-0	229-912-9	014-010-00-8	C; R34 Xi; R37
Sodium carbonate	: Between 1 and 10 %	497-19-8	207-838-8	011-005-00-2	Xi; R36
Sodium metasilicate, pentahydrate	: Between 1 and 10 %	10213-79-3	229-912-9	-----	C; R34 Xi; R37
Subtilisin	: Between 0.01 and 0.1 %	9014-01-1	232-752-2	647-012-00-8	Xi; R36/38 R42
Amylase, a	: < 0.01 %	9000-90-2	232-565-6	647-015-00-4	R42

**INCI** : SODIUM CARBONATE PEROXIDE  
Disodium Disilicate  
SODIUM METASILICATE  
SODIUM CARBONATE  
SODIUM METASILICATE  
Subtilisin  
Amylase, a

**3 HAZARDS IDENTIFICATION**

**Hazards identification** : According to the Preparation Directive 1999/45/EC this product is classified as:  
Corrosive.  
**Risk Phrases** : R34 : Causes burns.  
**- Inhalation** : When not cleaned on time, substances containing enzymes can be released  
resulting in sensitization.  
Overexposure may cause :  
Cough.  
Shortness of breath.  
Sore throat.  
**- Skin contact** : Causes burns.  
**- Eye contact** : Corrosive.

**Techno Powder****CODE: 32203076****3 HAZARDS IDENTIFICATION (continued)**

- Ingestion : Redness, pain.  
: Corrosive.  
: Diarrhea.  
: Vomiting.  
: Cramps.

**4 FIRST AID MEASURES**

- Inhalation : Fresh air, rest in half sitting position. Seek medical advice.
- Skin contact : Rinse affected area thoroughly with water to remove concentrated product.  
Remove contaminated clothing.  
Seek medical attention immediately.
- 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.  
Take to hospital.
- Note to physician : No specific recommendations.
- Workplace equipment : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**5 FIRE-FIGHTING MEASURES**

- 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 : Do not enter fire area without proper protective equipment, including respiratory protection.  
See Heading 8.
- Special procedures : Exercise caution when fighting any chemical fire.

**6 ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Avoid contact with skin, eyes and clothes.  
Equip cleanup crew with proper protection.  
See Heading 8.
- Environmental precautions : Avoid release to the environment.  
Prevent entry to sewers and public waters.
- 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.  
Clean-up released powder in time.

**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.  
Prevent moisture contact.  
Keep away from acids.  
Keep away from combustible material, reducing agents and strong bases.
- Handling : Avoid contact with skin, eyes and clothes.

**Techno Powder****CODE: 32203076****8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Personal protection**

- Skin protection : Wear suitable gloves resistant to chemical penetration.  
Wear waterproof gloves and alkaline protective clothing when taking up intensively material which is accidentally released.
- Eye protection : Wear chemical goggles when clearing accidentally released material.
- Respiratory protection : Ensure sufficient ventilation and wear a dust mask P2 when taking up intensively material which is accidentally released.

**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** : Powder.
- Colour** : White/Yellow.
- Odour** : Characteristic.
- pH value (concentrated product)** : 1% 11
- Density** : 0,96 kg/l
- Solubility in water** : Good.
- Flash point [°C]** : > 100
- Volatile Organic Compounds (%)** : 0
- 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.  
Heat.
- Materials to avoid** : Do not mix with other cleaning products.  
Acids.  
Combustibles.  
Reducing agents.  
Metals.  
Bases.
- Hazardous decomposition products** : Overpressure.  
Oxygen.

**11 TOXICOLOGICAL INFORMATION**

- Skin irritation (RBC test: Denaturation Index) (ppm)** : 1680 Slight irritant.
- Evaluation of the security for the human health**
- Dermal : Corrosive.
- Ocular : Corrosive. The high pH value may lead to permanent eye damage.
- 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** : All Techno Green products contain only ELINCS or EINECS registered raw materials and do not contain any ingredients known to be mutagenic, carcinogenic, teratogenic or reproduction toxic (R45,46,47,49,60,61,63,64, EU 97/

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C234, 67/548/EEC, 88/379/EEC, OSHA, NTP, IARC (cat 1-3))

**12 ECOLOGICAL INFORMATION****Ecological effects information****Biodegradation [%] Sapromat respirometry test (OECD 301 F)** : No data available.**EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201)** : 25 Hardly toxic.**48 Hour EC50 Daphnia magna [ppm] (OECD 202)** : 124 Hardly toxic.**Remarks** : Techno Green products do not contain any bioaccumulating raw materials and no PCM or nitromusk perfume components.**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 should be disposed of chemical waste according to national or local waste legislation. Empty, cleaned packaging is not subject to ADR.**14 TRANSPORT INFORMATION****UN No.** : 1759**H.I. nr** : 80**ADR/RID** : Group : III  
Class : 8**- Proper shipping name** : CORROSIVE SOLID, N.O.S. (sodium metasilicate)**Labelling ADR****Personal precautions** : The driver shall not attempt to deal with any fire of the load.**In case of spillage and/or leakage** : Clean up even minor leaks or spills if possible without unnecessary risk.**Emergency action in case of accident** : Mark roads and warns other road users.**Additional information** : None.**- Limited Quantity** : LQ 24**15 REGULATORY INFORMATION****Symbol(s)**

: C : Corrosive.

**R Phrase(s)** : R34 : Causes burns.**S Phrase(s)** : S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.  
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

**EEC Composition of detergents** : < 5% : - Nonionic surfactants  
15% - 30% : - Oxygenbased bleaching agents  
Enzymes

**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.  
R22 : Harmful if swallowed.  
R34 : Causes burns.  
R36 : Irritating to eyes.  
R36/38 : Irritating to eyes and skin.  
R37 : Irritating to respiratory system.  
R41 : Risk of serious damage to eyes.  
R42 : May cause sensitization by inhalation.

**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.

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

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