

Techno Duty**CODE: 32201120****1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY**

Trade name : Techno Duty
Type of product : Powder.
Use : For professional use only.
Company identification : Ecover Belgium NV
Industrieweg 3
2390 Malle Belgium
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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 - Soap
5% - 15% : - Anionic surfactants - Oxygenbased bleaching agents
15% - 30% : - Zeolites
Perfumes - Enzymes

Substance name	Contents	CAS No	EC No	Index No	Classification
Sodium carbonate	: > 10 %	497-19-8	207-838-8	011-005-00-2	Xi; R36
Zeolite	: > 10 %	1318-02-1	215-283-8	----	
Sodium carbonate peroxyhydrate	: Between 1 and 10 %	15630-89-4	239-707-6	----	O; R8 Xn; R22 Xi; R41
Disodium metasilicate	: Between 1 and 10 %	6834-92-0	229-912-9	014-010-00-8	C; R34 Xi; R37
Sodium metasilicate, pentahydrate	: Between 1 and 10 %	10213-79-3	229-912-9	----	C; R34 Xi; R37
Fatty Alcohol Sulfate C12-18	: Between 1 and 10 %	68955-19-1	273-257-1	----	Xi; R38-41
Ethoxylated rapeseed methyl esters	: Between 1 and 10 %	158318-69-5	----	----	Xi; R36
Fatty Alcohol Sulfate C16-18	: Between 1 and 10 %	68955-20-4	273-258-7	----	Xi; R36
Perfume	: Between 0.01 and 0.1 %	----	----	----	R43 N; R51-53
Subtilisin	: Between 0.01 and 0.1 %	9014-01-1	232-752-2	647-012-00-8	Xi; R36/38 R42

INCI : SODIUM CARBONATE
ZEOLITE
SODIUM CARBONATE PEROXIDE
SODIUM METASILICATE
SODIUM METASILICATE
SODIUM C12-18 ALKYL SULFATE
Fatty acid methyl esters ethoxylates
SODIUM CETEARYL SULFATE
PARFUM
Subtilisin

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

Techno Duty**CODE: 32201120****3 HAZARDS IDENTIFICATION (continued)**

- resulting in sensitization.
By prolonged exposure :
Shortness of breath.
Cough.
Sore throat.
- Skin contact : Corrosive.
Redness, pain.
- Eye contact : Corrosive.
Redness, pain.
Decrease of vision.
- Ingestion : Nausea.
Abdominal pain.
Diarrhea.
Vomiting.

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 advice.
- 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 attention immediately.
- 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

- 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 : Do not enter fire area without proper protective equipment, including respiratory protection.
- 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 : Clean-up released powder in time.
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.

Techno Duty**CODE: 32201120****7 HANDLING AND STORAGE**

- Protection against fire** : Not expected to be a fire/explosion hazard under normal conditions of use.
- Storage** : Keep only in the original container in a cool, well ventilated place.
Do not store in corrodable metal.
Prevent moisture contact.
- Handling** : Avoid contact with skin, eyes and clothes.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protection**
- **Skin protection** : Wear waterproof gloves (preferably PVC or butylrubber) in case of intensive use or contact with undiluted product.
Wear waterproof gloves and alkaline protective clothing when taking up intensively material which is accidentally released.
 - **Eye protection** : None under normal conditions.
Wear chemical goggles when clearing accidentally released material.
 - **Respiratory protection** : None under normal conditions.
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** : Zeolite : MAC [mg/m³] : 6
Subtilisin : TLV - ACGIH [mg/m³] : 0.00006

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C** : Powder.
- Colour** : White.
- Odour** : Flower aroma.
- pH value (concentrated product)** : 1% 11,25
- Density** : 0.8 kg/l
- Viscosity** : No data available.
- Solubility in water** : Good.
- Flash point [°C]** : > 100
- Volatile Organic Compounds (%)** : 0.08
- 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.
Alkali.
Acids.
Do not mix with other cleaning products.
- Hazardous decomposition products** : Overpressure
Oxygen.

Techno Duty**CODE: 32201120****11 TOXICOLOGICAL INFORMATION**

- Skin irritation (RBC test: Denaturation Index) (ppm)** : 129 (irritating).
- 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 registred 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/ 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)** : 21 Slightly toxic
- 48 Hour EC50 Daphnia magna [ppm] (OECD 202)** : 24 Slightly 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

- General information** : Land transport.
- UN No.** : 1759
- H.I. nr** : 80
- ADR/RID** : Group : III
Class : 8
- Proper shipping name** : CORROSIVE SOLID, N.O.S. (Oleoampho polycarboxy glycinat) (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.

Techno Duty**CODE: 32201120****14 TRANSPORT INFORMATION (continued)**

Additional information : None.
- Limited Quantity : LQ 24

15 REGULATORY INFORMATION

Symbol(s)



R Phrase(s) : R34 : Causes burns.
S Phrase(s) : S24 : Avoid contact with skin.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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 - Soap
5% - 15% : - Anionic surfactants - Oxygenbased bleaching agents
15% - 30% : - Zeolites
Perfumes - 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.
R38 : Irritating to skin.
R41 : Risk of serious damage to eyes.
R42 : May cause sensitization by inhalation.
R43 : May cause sensitization by skin contact.
R51/53 : 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.
Gloxhuber C, Künstler K, 1992. Anionic Surfactants, Surfactant Science Series 43, ed M.Dekker.
Revision : First version of this MSDS in this new format.
Print date : 8/12/2006

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

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