

Techno Color

CODE: 32201131

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Trade name : Techno Color
 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 contains hazardous components (Directive 67/548/EEC).
 * Composition : Regulation (CE) No. 648/2004 of 31 March 2004 on detergents:
 < 5% : - Soap
 5% - 15% : - Anionic surfactants - Nonionic surfactants
 15% - 30% : - Zeolites
 Perfumes - Enzymes

Substance name	Contents	CAS No	EC No	Index No	Classification
Sodium carbonate	: Between 15 and 30 %	497-19-8	207-838-8	011-005-00-2	Xi; R36
Zeolite	: Between 15 and 30 %	1318-02-1	215-283-8	----	
Ethoxylated rapeseed methyl esters	: Between 5 and 15 %	158318-69-5	----	----	Xi; R36
Fatty Alcohol Sulfate C12-18	: Between 5 and 15 %	68955-19-1	273-257-1	----	Xi; R38-41
Ethoxylated Fatty Alcohol C12-18	: Between 1 and 5 %	68213-23-0	----	----	Xn; R22 Xi; R41
Sodium metasilicate, pentahydrate	: Between 1 and 5 %	10213-79-3	229-912-9	----	C; R34 Xi; R37
Magnesium Sulfate	: Between 0.1 and 1 %	7487-88-9	231-298-2	----	Xn; R20/22
Perfume	: Between 0.1 and 1 %	----	----	----	Xi; R38 R43 R52-53
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
Cellulase	: Between 0.01 and 0.1 %	9012-54-8	232-734-4	647-002-00-3	R42

* INCI : SODIUM CARBONATE
 ZEOLITE
 Fatty acid methyl esters ethoxylates
 SODIUM C12-18 ALKYL SULFATE
 Alcohol(C12-18)EO(>5-10)
 SODIUM METASILICATE
 MAGNESIUM SULFATE
 PARFUM
 Amylase, a
 Subtilisin
 Cellulase

3 HAZARDS IDENTIFICATION

Hazards identification : Not classified as dangerous product.
 Risk Phrases : None.

Techno Color**CODE: 32201131****3 HAZARDS IDENTIFICATION (continued)****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 : Prolonged or repeated contact may cause skin to become dry or irritated.
- Eye contact : Irritation to eyes.
- Ingestion : Nausea.
Diarrhea.
Vomiting.
Abdominal pain.

4 FIRST AID MEASURES**First aid measures**

- Inhalation : Allow the victim to rest.
Assure fresh air breathing.
Seek medical attention if ill effect or irritation develops.
- 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 : Wash out mouth and do not induce vomiting. Seek medical attention.
- 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 : None.
- 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.
Clean-up released powder in time.
- 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** : 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.
- Handling** : Avoid contact with skin, eyes and clothes.

Techno Color**CODE: 32201131****8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Personal protection**

- **Skin protection** : Wear waterproof gloves when taking up intensively material which is accidentally released. Persons with a sensitive skin are also recommended to wear waterproof gloves.
- **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** : 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% 10,5
- Density** : 0,8 kg/l
- Solubility in water** : Good.
- Flash point [°C]** : > 100
- Volatile Organic Compounds (%)** : 0.1
- Explosion limits** : None.
- Oxidising properties** : None.

10 STABILITY AND REACTIVITY

- Stability and reactivity** : Even when properly stored, the proteases will lose their activity. Therefore it is recommended to consume the product within a year.
- Conditions to avoid** : Do not store <0°C and >40°C.
Moisture.
Heat.
- Materials to avoid** : Do not mix with other cleaning products.
- Hazardous decomposition products** : None under normal conditions.

11 TOXICOLOGICAL INFORMATION

- Skin irritation (RBC test: Denaturation : 178 (irritating). Index) (ppm)**
- 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).
- 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))

Techno Color**CODE: 32201131****12 ECOLOGICAL INFORMATION****Ecological effects information****Biodegradation [%] Sapromat respirometry test (OECD 301 F)** : No data available.**EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201)** : 91 Slightly toxic**48 Hour EC50 Daphnia magna [ppm] (OECD 202)** : 57 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 (not containing any residues) of this product can be disposed of as residue 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****R Phrase(s)** : None.**S Phrase(s)** : None.*** EEC Composition of detergents** : < 5% : - Soap
5% - 15% : - Anionic surfactants - Nonionic surfactants
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)** : R20/22 : Harmful by inhalation and if swallowed.
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.
R52/53 : Harmful 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.
Chemiekaarten, 21th edition, 2006, ed. MIA, VMCI, Samson.
Gloxhuber C, Künstler K, 1992. Anionic Surfactants, Surfactant Science Series 43, ed M.Dekker.



**MATERIAL SAFETY DATA SHEET
According to 2001/58EC**

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16 OTHER INFORMATION (continued)

Revision : Revision - See : *
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The contents and format of this SDS are in accordance with EEC Commission Directive 2001/58EC.

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