

Zeppil**CODE: 32104295****3 HAZARDS IDENTIFICATION**

Hazards identification	: Not classified as dangerous product.
Risk Phrases	: None.
Symptoms relating to use	
- Inhalation	: None under normal conditions.
- Skin contact	: Slight skin irritant.
- Eye contact	: Irritation to eyes.
- Ingestion	: Nausea. Diarrhea. Vomiting. Abdominal pain.

4 FIRST AID MEASURES

First aid measures	
- Inhalation	: Assure fresh air breathing.
- Skin contact	: Rinse affected area thoroughly with water to remove concentrated product. Remove contaminated clothing. Seek medical attention if ill effect or irritation develops.
- 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	: 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	: None.
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, eyes and clothes. See Heading 8. Equip cleanup crew with proper protection.
Environmental precautions	: Avoid release to the environment. Prevent entry to sewers and public waters.
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 relevant.
Storage	: Store in a cool and frost-free place.
Handling	: Avoid contact with skin, eyes and clothes.

Zeppil**CODE: 32104295****8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Personal protection**

- **Skin protection** : Wear waterproof gloves when using or handling this product.
Wear waterproof gloves and alkaline protective clothing when taking up intensively material which is accidentally released.
 - **Eye protection** : Wear safety goggles when clearing accidentally released material and if there is a risk of splashing.
 - **Respiratory protection** : Ensure there is adequate ventilation.
- Environment protection see § 6**
- Occupational Exposure Limits** : Potassium hydroxide : TLV[®] -STEL [mg/m³] : 2

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C** : Viscous liquid.
- Colour** : Yellow.
- Odour** : Citrus fruits.
- pH value (concentrated product)** : 13
- Density** : 1.04 kg/l
- Viscosity at 25°C [mPa.s] (Brookfield LVT)** : 1300 mPa.s
- Solubility in water** : Complete.
- Flash point [°C]** : >100
- Volatile Organic Compounds (%)** : 0.35
- Explosion limits** : None.
- Oxidising properties** : None.

10 STABILITY AND REACTIVITY

- Stability and reactivity** : No decomposition under normal conditions of storage and use.
- Conditions to avoid** : Do not store <0°C and >40°C.
- Materials to avoid** : Acids.
- Hazardous decomposition products** : None under normal conditions.

11 TOXICOLOGICAL INFORMATION

- Skin irritation (RBC test: Denaturation Index) (ppm)** : 50
- Evaluation of the security for the human health**
- **Dermal** : Irritation due to the composition.
- **Ocular** : Irritation due to the composition of the material. The high degree of acidity constitutes a risk of permanent eye damage.
- **Ingestion** : Relatively harmless (LD 50 rat-oral-theoretical >33000 ppm).
- Sensitization** : This product contains sensitizing fragrance components > 100 ppm: see § 2 and 15.
- 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))

Zeppil**CODE: 32104295****12 ECOLOGICAL INFORMATION****Ecological effects information****Biodegradation [%] Sapromat respirometry test (OECD 301 F)** : 92 Biodegradable.**EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201)** : 339 Hardly toxic.**48 Hour EC50 Daphnia magna [ppm] (OECD 202)** : 190 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 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****R Phrase(s)** : None.**S Phrase(s)** : None.**EEC Composition of detergents** : > 30% : - Soap
Perfumes - Preservatives
GERANIOL, LIMONENE, CITRAL.
2-BROMO-2-NITROPROPANE-1,3-DIOL
TRIS (HYDROXYMETHYL) NITROMETHANE.**16 OTHER INFORMATION****Training advice** : For correct use of this product: see Technical Data Sheet.**List of relevant R phrases (heading 2)**: R10 : Flammable.
R20/22 : Harmful by inhalation and if swallowed.
R22 : Harmful if swallowed.
R35 : Causes severe burns.
R36 : Irritating to eyes.
R36/37/38 : Irritating to eyes, respiratory system and skin.
R36/38 : Irritating to eyes and skin.
R38 : Irritating to skin.
R41 : Risk of serious damage to eyes.
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.

Zeppil**CODE: 32104295****16 OTHER INFORMATION (continued)**

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 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	: 30 / 3 / 2007
Further information	: None.

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

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