

**Citronet**

**CODE: 32101001**

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

Trade name : Citronet  
 Type of product : Liquid.  
 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 : +41 44 251 51 51 (Toxikologisches Institut Zürich)  
 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% : - Amphoteric surfactants - Nonionic surfactants  
 5% - 15% : - Anionic surfactants  
 Perfumes - Preservatives  
 2-BROMO-2-NITROPROPANE-1,3-DIOL.  
 LIMONENE.

Substance name	Contents	CAS No	EC No	Index No	Classification
SodiumalkylEO2sulfate(lauryl-)	: > 1 <= 10 %	68891-38-3	POLYMER	----	Xi; R38-41
Sodiumalkyl(C10-16)sulfate	: > 1 <= 10 %	68585-47-7	271-557-7	----	Xi; R38-41
Lauryl polyglucose	: > 1 <= 10 %	110615-47-9	POLYMER	----	Xi; R38-41
Alkyl(lauryl)dimethylbetaine	: > 0.1 <= 1 %	683-10-3	211-669-5	----	Xi; R36 N; R50
Perfume	: > 0.01 <= 0.1 %	----	----	----	R10 Xn; R65 N; R51-53
Limonene (D-)	: > 0.01 <= 0.1 %	5989-27-5	227-813-5	601-029-00-7	R10 Xi; R38 R43 N; R50-53
Bronopol (INN)	: > 0.01 <= 0.1 %	52-51-7	200-143-0	603-085-00-8	Xn; R21/22 Xi; R37/38-41 N; R50
Citric acid	: > 0.01 <= 0.1 %	77-92-9	201-069-1	----	Xi; R36/37/38
Denatonium benzoate (Bitrex)	: < 0.01 %	3734-33-6	223-095-2	----	Xn; R20

INCI : SODIUM LAURETH SULFATE  
 SODIUM LAURYL SULFATE  
 LAURYL POLYGLUCOSE  
 LAURYL BETAINE  
 PARFUM  
 LIMONENE  
 2-BROMO-2-NITROPROPANE-1,3-DIOL  
 CITRIC ACID  
 DENATONIUM BENZOATE

### 3 HAZARDS IDENTIFICATION

Hazards identification : Not classified as dangerous product.  
 Symptoms relating to use  
 - Inhalation : None under normal conditions.

**Citronet****CODE: 32101001****3 HAZARDS IDENTIFICATION (continued)**

- Skin contact : Prolonged or repeated contact may cause skin to become dry.
- Eye contact : Irritation to eyes.
- Ingestion : Bitrex makes it virtually impossible to ingest this product.

**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 a long time with plenty of water. Seek medical attention if the irritation persists. Inadequate first aid may lead to persisting eye complaints.
- Ingestion : Wash out mouth and do not induce vomiting! Let the victim drink 2 glasses of water on his own. Administer 100 mg of Dimethicone within 1 hour. Same treatment in case of ingestion of > 60 ml and seek medical attention immediately.

**Note to physician** : Treat symptomatically if heavy vomiting and diarrhoea persist (water and electrolyte). Carry out gastric intubation after having administered Dimethicone and only in case of ingestion of more than 5 swallows without having resulted in vomiting.

**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** : Spill area may be slippery. Avoid contact with skin and eyes. Wear proper protective equipment. See Heading 8.
- Environmental precautions** : Avoid release to the environment.
- 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 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 and eyes.

**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.

**Citronet****CODE: 32101001****8 EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)**

- Eye protection : Wear safety goggles when clearing accidentally released material and if there is a risk of splashing.
- Respiratory protection : Not relevant.
- Environment protection see § 6

**9 PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state at 20 °C : Viscous liquid.
- Colour : Colourless.
- Odour : Citrus fruits.
- pH value (concentrated product) : 7
- Density : 1,03 kg/l
- Viscosity at 25°C [mPa.s] (Brookfield LVT) : 1000
- Solubility in water : Complete.
- Flash point [°C] : > 100
- Volatile Organic Compounds (%) : 0.1
- 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 : Do not mix with other cleaning products.
- Hazardous decomposition products : None under normal conditions.

**11 TOXICOLOGICAL INFORMATION**

- Skin irritation (RBC test: Denaturation Index) (ppm) : 123 (irritating).
- Evaluation of the security for the human health
  - Dermal : Irritation due to the composition.
  - Ocular : Irritation due to the composition.
  - Ingestion : Relatively harmless (LD 50 rat-ori-theo >22000 ppm). Bitrex makes it virtually impossible to ingest this product.
- Sensitization : This product contains sensitizing fragrance components > 100 ppm: see § 2 and 15.
- 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/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) : 85
  - EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201) : 89 Slightly toxic
  - 48 Hour EC50 Daphnia magna [ppm] : 23 Slightly toxic

**Citronet****CODE: 32101001****12 ECOLOGICAL INFORMATION (continued)**

(OECD 202)

**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 recyclable (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**

**Symbol(s)** : None.

**R Phrase(s)** : None.

**S Phrase(s)** : None.

**EEC Composition of detergents** : < 5% : - Amphoteric surfactants - Nonionic surfactants  
5% - 15% : - Anionic surfactants  
Perfumes - Preservatives  
LIMONENE.  
2-BROMO-2-NITROPROPANE-1,3-DIOL.

**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 : Harmful by inhalation.  
R21/22 : Harmful in contact with skin and if swallowed.  
R36 : Irritating to eyes.  
R36/37/38 : Irritating to eyes, respiratory system and skin.  
R37/38 : Irritating to respiratory system and skin.  
R38 : Irritating to skin.  
R41 : Risk of serious damage to eyes.  
R43 : May cause sensitization by skin contact.  
R50 : Very toxic to aquatic organisms.  
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.

**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.

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

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Date : 10/1/2006

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

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