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		Revised edition no : 1
		Supersedes : 0/0/0
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

: Pakex UK Plc, 1
Prime Point,
Welwyn Garden
City, AL7 1FE

Phone

: 01707 384858

Fax

: 01707 3382838

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 LAURYLSULFATE 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.

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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.

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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 : 123 (irritating). Index) (ppm)
- 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 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) : 85
- EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201) : 89 Slightly toxic
- 48 Hour EC50 Daphnia magna [ppm] : 23 Slightly toxic

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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 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

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.

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