

PRAESTOL K 144 L

Version 2 Revision date: 13.11.2003

Print date: 08.01.2004

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

Product information

Product name : PRAESTOL K 144 L

COMPANY : Stockhausen GmbH & Co. KG
Bäckerpfad 25
47805 Krefeld

Telephone : ++49-2151-38-1370
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Use : Flocculating aid.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation:

Description : Acrylamide/cationic acrylic acid derivative-copolymer as W/O-emulsion in isoparaffinic hydrocarbons

Hazardous components:

Description : C-16-hydrocarbon, aliphatic
Percentage : ~25%
Symbol(s) : XN
R-phrases : 65

Hazardous components:

Description : Fatty alcohol polyglycol ether.
Percentage : <3%
Symbol(s) : XI,N
R-phrases : 41-50
CAS-No. : 68213-23-0
EINECS : POLYMER

3. HAZARDS IDENTIFICATION

Spilled product in contact with water or moisture causes surfaces to become extremely slippery
In the case of prolonged contact with the skin or eyes irritation is possible.
Due to acute aquatic toxicity, prevent spillage and disposal of product into natural waters.

4. FIRST AID MEASURES

Eye contact : Rinse with much water for a prolonged time - if ill effects occur seek medical advice.

Skin contact : Wash with water and soap. Take off contaminated clothing.

Ingestion : If ill effects occur seek medical advice immediately.

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5. FIRE-FIGHTING MEASURES

Specific hazards during fire fighting : In case of fire carbon monoxide, nitrogen oxides
Special protective equipment for firefighters : no special requirements
Suitable extinguishing media : Water mist, foam, carbon dioxide, dry powder

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Spilled product in contact with water or moisture causes surfaces to become extremely slippery
Environmental precautions : Prevent penetration into surface waters, sewers and ground. Take up with absorbent material and dispose of.

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion : no special requirements

Storage stability

Storage temperature : -10 - 35 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Base : MAK
Remarks: : Not applicable.

Personal protection equipment

Hand protection : Note: Recommended. Use suitable gloves as a precaution.

Prolonged exposure : Material: butyl-rubber
Permeation time: 480'
Thickness (mm): > 0,7

Short term exposure : Material: nitrile gloves
Permeation time: 30'
Thickness (mm): > 0,4

Eye protection : Protective goggles

Hygiene measures : Obey reasonable safety precautions and practise good housekeeping.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Colour : whitish
Odour : slightly of ester

Other data

Fusing temperature : < -15 °C
Starts to boil at : ~ 103 °C
Flash point : > 100,00 °C
Flash point : > 100
Upper explosion limit : Not applicable.
Vapour pressure : < 35 hPa
at 20,0 °C
Density : 1,03 g/cm³
at 20,0 °C
Water solubility : at 20,0 °C
Soluble with a rise in viscosity.
pH : 3,4 - 4
at 10,0 g/l (20,0 °C)
Solvent content : ~ 25 %
Viscosity, dynamic : < 4.000,0 mPa.s
at 20,0 °C
Viscosity, dynamic : > 7,0 mPa.s
at 40,0 °C

10. STABILITY AND REACTIVITY

Thermal decomposition : stable under usual application conditions

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 Mouse.
Dose: > 5000 mg/kg
Method: preliminary investigation

Further information : No known detrimental effects on health known, In the case of

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prolonged contact with the skin or eyes irritation is possible.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

- Biodegradability : Method: OECD 111 (EU C 7)
Abiotic degradation: hydrolysis > 70% (28 d), equivalent to ready biodegradability according to 67/548/EEC Annex VI
- Physico-chemical removability : Because of its specific substantivity the product can be eliminated well in biological waste effluent treatment plants (binding on digestive sludge).
- Toxicity to daphniae : Daphnia magna
EC50 >10 mg/l
Exposure time: 48 h
Method: OECD Nr. 202
Data of the active component.
Information from literature
- Fish toxicity : LC50 > 1 -10 mg/l
Exposure time: 96,00 h
Method: OECD Nr. 203
Data of the active component.
Information from literature
- Further information : Effects on aquatic organisms are attributable to the cationic charge of the polymer. In natural surface waters this is neutralised by irreversible adsorption to particles and dissolved organic carbon. This reduces the toxicity in surface waters by more than 10-fold. Effects on aquatic organisms are due to an external (non-systemic) mode of action.
- Further information : Prevent concentrated product from penetrating into waters without biological waste water treatment.

13. DISPOSAL CONSIDERATIONS

- Product : Dispose of whilst observing local legal regulations, e.g. in a suitable incineration plant.
- Contaminated packaging : Undamaged packaging may be responsibly reused after proper cleaning.

14. TRANSPORT INFORMATION

- Further information : Not restricted according to transport regulations.

