

PRAESTOL 611 BC

Version 2 Revision date: 18.03.2003

Print date: 08.01.2004

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

Product information

Product name : PRAESTOL 611 BC

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

Telephone : ++49-2151-38-1370
Emergency phone : ++49-2151-38-1370
Telefax : ++49-2151-38-1647

Use: : Flocculating aid.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation:

Description: : Copolymer of acrylamide with cationic acrylic acid derivative

CAS-No. : 75150-29-7

EINECS: : POLYMER

3. HAZARDS IDENTIFICATION

Spilled product in contact with water or moisture causes surfaces to become extremely slippery
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

Inhalation : If ill effects occur seek medical advice immediately.

Ingestion : If ill effects occur seek medical advice immediately.

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

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Spilled product in contact with water or moisture causes surfaces to become extremely slippery
Sweep up even small residues carefully.
- Environmental precautions : Take up and dispose of.
Do not allow to drain into the sewers/surface waters.

7. HANDLING AND STORAGE

Handling

- Safe handling advice : When dust is formed ensure sufficient workplace ventilation.

Storage

- Requirements for storage areas and containers : Store in a dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

- Base : MAK
Remarks: : Not applicable.

Personal protection equipment

- Respiratory protection** : If dust is produced.
- Hand protection** : Note: Not required. For occupational hygiene reasons it is recommended to wear gloves, e.g. rubber gloves.
- Eye protection** : Protective goggles
- Hygiene measures** : Obey reasonable safety precautions and practise good housekeeping.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form : Powder
- Colour : White to yellowish.
- Odour : Slightly of amine.

Other data

- Fusing temperature : Not applicable.

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Starts to boil at	:	Not applicable.
Flash point	:	Not applicable.
Ignition temperature	:	> 200 °C Method: DIN 51794
Upper explosion limit	:	Not applicable.
Bulk density	:	570 - 670 kg/m ³
Water solubility	:	at 20,0 °C Soluble with a rise in viscosity.
pH	:	~ 4 at 10,0 g/l (20,0 °C)
Viscosity, dynamic	:	10 g/l 10% NaCl: 400-550 mPa.s at 20,0 °C

10. STABILITY AND REACTIVITY

Thermal decomposition	:	> 150 °C Stable under usual application conditions.
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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 rat Dose: > 5000 mg/kg Method: OECD Nr. 401 of a 5% solution
Skin irritation	:	Rabbit Method: OECD Nr. 404 Not irritative.
Eye irritation	:	Result: Very slight eye irritation. Particle effect
Sensitization	:	Guinea pig Result: 0% (0/20) Method: OECD Nr. 406 No sensitization.
Further information	:	Eye irritation, Hen's egg test., no irritation
Further information	:	Ames test: negative

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability	:	Prevent concentrated product from penetrating into waters without biological waste water treatment. Due to its high polymer structure, the biodegradation of the product is negligible.
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- Because of its specific substantivity the product can be eliminated well in biological waste effluent treatment plants (binding on digestive sludge).
- Physico-chemical removability : 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.
- Bacterial toxicity : *Ps. putida*
EC50 > 925 mg/L
Method: Oxygen consumption test (DIN 38412/27)
- Toxicity to daphniae : *Daphnia magna*
EC50 >10 mg/L
Exposure time: 48,00 h
Method: OECD Nr. 202
- Fish toxicity : *Brachydanio rerio*
LC50 > 10 mg/l
Exposure time: 96,00 h
Method: OECD Nr. 203
- Further information : Acute earthworm toxicity (*Eisenia foetida*; OECD 207)
LC50 > 1000 mg/kg
- Further information : Data reported in section 11 resp. 12 have been determined in the Laboratory for Toxicology and Ecology, STOCKHAUSEN GmbH & Co. KG, Krefeld.

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.

15. REGULATORY INFORMATION

Labelling according to EEC Directive

- R-phrase(s) : R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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National legislation / regulations

German "Flammable Liquids" classification (VbF) : Not applicable.

Water contaminating class : 2 (official list)

TA Luft (Germany) : Not applicable.

16. OTHER INFORMATION

Other information : Residual monomers: acrylamide < 0.1%

Alterations: section 1/2/3/6/8/11/12/15

Datenblatt ausstellender Bereich: LTÖ/Produktsicherheit

Contact Person: Services Krefeld/Laboratorium für Toxikologie und
Ökologie/Produktsicherheit

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