

PRAESTOL 650 BC

Version 2 Revision date: 18.03.2003

Print date: 09.01.2004

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

Product information

Product name : PRAESTOL 650 BC

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

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

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

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
- 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	:	not determined
Bulk density	:	~0,65 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: 250-400 mPa.s at 20,0 °C

10. STABILITY AND REACTIVITY

Thermal decomposition	:	> 200 °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
Acute dermal toxicity	:	LD50 Dose: > 2000 mg/kg (OECD 402, rat)
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	:	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
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	negligible. 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.
Ciliate toxicity	: Tetrahymena pyriformis EC50 ~ 35 mg/l Exposure time: 48,00 h Method: Erlanger Ciliatentest (Prof. Gräf)
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.
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15. REGULATORY INFORMATION

Labelling according to EEC Directive

