

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

Product information

Product name : FIRESORB MO AL

COMPANY : Stockhausen GmbH
Bäckerpfad 25

47805 Krefeld
Telephone : ++49-2151-38-1370
Emergency phone : ++49-2151-38-1370
Telefax : ++49-2151-38-1647

Use: : Additive

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation:

Description: : Preparation of sodium acrylate/acrylamid-copolymer and fatty acid ester as a water-in-oil-emulsion.

Hazardous components:

Description: : Combination of copolymer and fatty acid ester
Percentage: : ~ 60 %
R-phrases: : 52/53

Hazardous components:

Description: : Isotridecyl polyglycol ether.
Percentage: : <5%
Symbol(s): : Xn
R-phrases: : 22-41
CAS-No. : 69011-36-5
EINECS: : Polymer

Hazardous components:

Description: : {** Phrase language not available: [E] CED - 000000076000213
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Percentage: : <10%
Symbol(s): : Xn
R-phrases: : 10-65
EINECS: : 265-150-3

3. HAZARDS IDENTIFICATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Eye contact : Rinse for a prolonged period with plenty of water; if necessary,

consult a doctor.

Skin contact : Wash with soap and water. Remove contaminated clothing.

Ingestion : Seek medical advice if feeling unwell.

5. FIRE-FIGHTING MEASURES

Specific hazards during fire fighting : No particular hazards.

Special protective equipment for firefighters : no special requirements

Suitable extinguishing media : water jet, carbon dioxide, foam, dry extinguishing agents

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Soak up with absorbent material.

Additional advice : Spilled product in contact with water or moisture causes surfaces to become extremely slippery

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion : no special requirements

Storage

Requirements for storage areas and containers : Do not store at above 40 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Base : MAK

Remarks: : Not applicable.

Personal protection equipment

Hand protection : Note: Gloves (specific for substance and workplace)

Eye protection : Protective goggles

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	:	liquid
Colour	:	opaque
Odour	:	Ester-like.
Other data		
Fusing temperature	:	not determined
Starts to boil at	:	~96 °C
Flash point	:	> 100,00 °C Method: DIN EN 22719
Ignition temperature	:	not determined
Density	:	~ 1,05 g/cm ³ at 20,0 °C
Water solubility	:	at 20,0 °C with a large rise in viscosity
pH	:	~ 7,0 at 27,5 g/l (20,0 °C)
Solvent content	:	~30 %
Viscosity, dynamic	:	< 500,0 mPa.s at 20,0 °C

10. STABILITY AND REACTIVITY

Thermal decomposition	:	stable under usual application conditions
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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 rat Dose: > 2.000,0 mg/kg Method: OECD 401 Limit test.
Acute inhalation toxicity	:	LC0 rat Dose: > 5.000,000000 mg/m ³ Method: OECD 403 (by analogy)
Skin irritation	:	Rabbit Method: OECD 404 Not irritative.
Eye irritation	:	Rabbit Method: OECD 405

	: Not irritative.
Sensitization	: Guinea pig Method: OECD 406 No sensitization.
Repeated dose toxicity	: oral rat Exposure time: 28 d NOEL: 1.000,0 mg/kg Method: OECD 407
Further information	: Harmful effects on health have not been found.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability	: 50 -100 % Method: OECD 302B physical eliminability
Biodegradability	: 47% (100 mg/l) Method: 92/69/EWG, C 5 Medium biodegradability
Biodegradability	: 27% Method: Composting test. (by analogy)
Toxicity to algae	: Scenedesmus subspicatus EC50 34 mg/l Exposure time: 72,00 h Method: OECD 201
Bacterial toxicity	: Ps. putida EC50 > 4000 mg/l Method: DEV L 8
Toxicity to daphniae	: Daphnia magna EC50 48 mg/l Exposure time: 48,00 h Method: OECD 202
Fish toxicity	: Danio rerio LC50 > 100 mg/l

Exposure time: 96,00 h

Method: OECD 203

BOD : Concentration: 100,0 mg/l
Method: 92/69/EWG, C 5
BOD: 63,0 mg/g

Chemical Oxygen Demand (COD) : 1.330,0 mg/g
Method: DEV H 41 / DIN 38409

Further information : Acute earth worm toxicity (Eisenia foetida; OECD 207)
(by analogy)
EC50 > 8750 mg/kg

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

Land transport

ADR:

Not dangerous goods

RID:

Not dangerous goods

Sea transport

IMDG:

Not dangerous goods

Air transport

ICAO/IATA:

Not dangerous goods

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.

National legislation / regulations

Water contaminating class : VwVwS 1 slightly hazardous to water (self classification)

TA Luft (Germany) : Not applicable.

16. OTHER INFORMATION

R-phrases referred to in chapter 2 and 3 - wording

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R22 - Harmful if swallowed., R41 - Risk of serious damage to eyes.

R10 - Flammable., R65 - Harmful: may cause lung damage if swallowed.

Residual monomers : acrylamide < 100 PPM

Residual monomers : Acrylic acid. < 500 PPM

Alterations: section 9

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

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