

Safety Data Sheet

in accordance with regulation (EC) 1907/2006

Status: 25.03.2011

Version: 1.1



STOCKOSORB 660 MEDIUM

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

1.1. Product identifier

STOCKOSORB 660 MEDIUM

Substance name: Potassium polyacrylate, cross-linked.

CAS-No.: 25608-12-2

CLP-No.: -

REACH-No.: -

EINECS-No.: Polymer

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use(s): Soil conditioner

1.3. Details of the supplier of the safety data sheet

Evonik Industries AG
Consumer Specialties
Bäkerpfad 25
47805 Krefeld
Germany
+49-2151-38-1370
Email address of qualified person:
usgq-krefeld@evonik.com

Emergency Number: +49-2151-38-1370

Telefax Number: +49-2151-38-1647

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

This substance is not classified according to CLP/GHS

Regulation (EC) No 1272/2008

Not applicable.

2.2. Label elements

Regulation (EC) No 1272/2008

Not applicable.

Directive 67/548/EC or Directive 1999/45/EC

not subject to compulsory marking

2.3. Other hazards

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

Keep out of reach of children.

Dust explosive properties cannot be excluded.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Regulation (EC) No 1272/2008

Component	EINECS-No. REACH-No. CAS-No.	Content	Hazard class / Hazard category / Hazard statement
Potassium polyacrylate, cross-linked.	- 25608-12-2	>= 95.0<= %	not applicable

Directive 67/548/EC or Directive 1999/45/EC

Component	CAS Number	Hazard symbol(s) / R-phrases(s)	Content
Potassium polyacrylate, cross-linked.	25608-12-2	-	>= 95.0<= %

3.2. Mixtures

4. FIRST AID MEASURES

4.1. Description of first aid measures

Skin contact	Wash with soap and water. Remove contaminated clothing.
Eye contact	Rinse for a prolonged period with plenty of water; if necessary, consult a doctor.
Ingestion	Seek medical advice if feeling unwell.

4.2. Most important symptoms and effects, both acute and delayed

None known

4.3. Indication of any immediate medical attention and special treatment needed

In case of swallowing: drink plenty of water

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

In case of fire carbon monoxide, carbon dioxide

5.3. Advice for firefighters

No special requirements.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Collect and flush small residuals with much water into the drain for subsequent biological waste effluent treatment.

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6.3. Methods and material for containment and cleaning up

Sweep up and shovel. Clean thoroughly. Repeat procedure if necessary.

6.4. Reference to other sections

For personal protection see section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice	Use respiratory protection when exceeding limit (see chapter 8) and dust is formed. Ensure sufficient workplace ventilation.
Advice on protection against fire and explosion	Take measures against electrostatic charge. The product itself is not explosive, however, fine dust may form explosive mixtures in air. Avoid the production of dust.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Store in a dry place. Average temperature for loose bulk storage over 3 m ³ must not exceed 50°C.
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7.3. Specific end use(s)

no

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components or products of decomposition according to point 10, with limit values related to the place of work which require monitoring

Potassium polyacrylate, cross-linked. 25608-12-2	
MAK (DFG)	0.05 mg/m ³
Alveolar fraction	
Cat. 4	

C - No risk of embryotoxic effects if TLV and BTV limits are complied with.

The European Disposables and Non-Wovens Association (EDANA) recommends a workplace limit of 0.05 mg/cbm for respirable dust of superabsorbent polymer (particle size under 10 microns), based on the NOEL (No Observed Effect Level) of the two-year inhalation study (see section 11).

8.2. Exposure controls

Hygiene measures	Obey reasonable safety precautions and practise good housekeeping.
Respiratory protection	Use respiratory protection when exceeding limit (see chapter 8) and dust is formed. Ensure sufficient workplace ventilation.
Hand protection	
General information	not applicable
Eye protection	Protective goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	Powder.
Colour	white
Odour	odourless
Melting point/range	Not applicable.
Boiling point/range	Not applicable.
Flash point	Not applicable.
Ignition temperature	not determined

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Vapour pressure	< 20 hPa (20 °C)
Density	approx. 0.7 g/cm ³
Bulk density	approx. 650 kg/m ³
Solubility in water	Essentially insoluble.
pH	approx. 7.7 (1 g/l)
Viscosity (dynamic)	Not applicable.

9.2. Other information

none

10. STABILITY AND REACTIVITY

10.1. Reactivity

see section 10.2.

10.2. Chemical Stability

Stable under usual application conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Decomposition above 200 °C.

10.5. Incompatible materials

No known incompatibility with other materials.

10.6. Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Oral Toxicity	LD50 rat, OECD 401, Limit test.	> 5,000 mg/kg
Acute Dermal Toxicity	LD50 rat, OECD 402, Limit test.	> 2,000 mg/kg
Caustic burning / irritation of skin	Rabbit, OECD 404, Not irritative.,	
Serious eye damage/eye irritation	Rabbit, OECD 405, Very slight eye irritation. Particle effect,	
Respiratory/skin sensitization	Guinea pig, OECD 406, No sensitization.	
Aspiration hazard	not applicable	
Germ cell mutagenicity	non-mutagenic; Ames test not mutagenic in <i>in vivo</i> and <i>in vitro</i> tests	
Reprotoxicity / teratogenicity	no evidence for hazardous properties	
Human health hazard assessment	CMR: no	

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Specific Target Organ Toxicity - Repeated exposure	A chronic (two-year) lifetime inhalation study on rats, carried out with micronised dust of a superabsorbent polymer (in order to produce fully respirable particles) resulted in an unspecified inflammatory reaction in the lungs which caused the formation of tumours in some animals receiving the highest chronically administered concentration (see monitoring of the workplace/ protective equipment in section 8). Without chronic inflammation tumours are not to be expected. The study produced a NOEL definition of 0.05 mg/cbm for micronized dust of superabsorbent polymer.
General information	Data reported in section 11 resp. 12 have been determined on a comparable product in the Laboratory for Toxicology and Ecology, Evonik Stockhausen GmbH, Krefeld, Germany. With the exception of the two-year study.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Aquaticity, fish	LC50 Leuciscus idus, OECD 203, 96 h	> 5,500 mg/l
	LC50 Danio rerio, OECD 203, 96 h	> 4,000 mg/l
Aquaticity, invertebrates	EC50 Tetrahymena pyriformis, Erlanger Ciliatentest (Prof. Gräf)	> 6,000 mg/l
Toxicity in microorganisms	EC50 Ps. putida, DEV L 8, 24 h	> 6,000 mg/l
Toxicity in organisms which live in the soil	LC50 Acute earthworm toxicity Eisenia foetida, OECD 207, 14 d	> 20,000 mg/kg

12.2. Persistence and degradability

Biodegradability Not rapidly degradable under aerobic conditions.

12.3. Bioaccumulative potential

Bioaccumulation Does not bioaccumulate.

12.4. Mobility in soil

Mobility no evidence for hazardous properties

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment PBT: novPvB: no

12.6. Other adverse effects

General Information None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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

14. TRANSPORT INFORMATION

14.1. UN number

see section 14.2.

14.2. UN proper shipping name

Land transport ADR/GGVSEB

Not a dangerous good within the meaning of transportation regulations.

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Land transport RID/GGVSEB

Not a dangerous good within the meaning of transportation regulations.

Inland waterway transport ADN/GGVSEB (Germany)

Not a dangerous good within the meaning of transportation regulations.

Shipment by sea IMDG/GGVSee

Not a dangerous good within the meaning of transportation regulations.

Air transport ICAO/IATA

Not a dangerous good within the meaning of transportation regulations.

14.3. Transport hazard class(es)

see section 14.2.

14.4. Packing group

see section 14.2.

14.5. Environmental hazards

if not mentioned in Point 14.2 then it does not apply

14.6. Special precautions for user

see section 14.2.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

for transport approval see regulatory information

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

WGK - Water Hazard Class (Germany) / Wassergefährdungsklasse (Deutschland) 1 (VVWS 1999 , 1 slightly hazardous to water - self classification.)

Status of Registration

REACH (EU)	listed or exempted
TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
METI (J)	listed or exempted
ECL (KOR)	listed or exempted
PICCS (RP)	listed or exempted
IECSC (CN)	listed or exempted

16. OTHER INFORMATION

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References

relevant manuals and publications
own examinations
own toxicological and ecotoxicological studies
toxicological and ecotoxicological studies of other manufacturers
SIAR
OECD-SIDS
RTK public files

Places marked by || have been amended from the last version.

Date of printing : 26.03.2012