

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 06.11.2009

Product: **Soluplus®**

Version: 1.3

(30446233/SDS_GEN_EU/EN)

Date of print 11.11.2009

1. Identification of the substance/mixture and of the company/undertaking

Soluplus®

Company:

BASF SE

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GERMANY

Operating Division Care Chemicals

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Emergency information:

International emergency number:

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2. Hazards Identification

According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Label elements and precautionary statement:

| The product does not require a hazard warning label in accordance with GHS criteria.

Classification of the substance and mixture:

| No need for classification according to GHS criteria for this product.

Other hazards which do not result in classification:

The product is under certain conditions capable of dust explosion.

Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)

The product is under certain conditions capable of dust explosion.

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3. Composition/Information on Ingredients

Chemical nature

Acetic acid ethenyl ester, polymer with 1-ethenylhexahydro-2H-azepin-2-one and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft

CAS Number: 402932-23-4

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

Note to physician:

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Suitable extinguishing media:

water, carbon dioxide, dry extinguishing media, foam

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Avoid dust formation. Avoid all sources of ignition: heat, sparks, open flame.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
For small amounts: Sweep/shovel up.
For large amounts: Sweep/shovel up.
Dispose of absorbed material in accordance with regulations. Avoid raising dust.

7. Handling and Storage

Handling

Ensure thorough ventilation of stores and work areas. Provide exhaust ventilation if dust is formed.

Protection against fire and explosion:

Avoid dust formation. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

8. Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection:

Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

Chemical resistant protective gloves (EN 374)

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form: powder
Colour: white to light yellow
Odour: faint specific odour

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pH value: 3 - 5.5
(25 %(m), 20 °C)

melting point (decomposition): > 58 °C

Flammability: not highly flammable
Self ignition: (Method: VDI 2263, sheet 1, 1.4.1) Temperature: > 350 °C
No self ignition was observed up to the specified temperature.

Minimum ignition energy: 10 - 30 mJ (VDI 2263, sheet 1, 2.1.1)
(1,013 hPa, 20 °C)
Inductivity: 1.0 mH
The product is capable of dust explosion.

Bulk density: approx. 500 - 600 kg/m³

Solubility in water: completely soluble
> 90 %(m)

Hygroscopy: hygroscopic

10. Stability and Reactivity

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

The product is chemically stable.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:
Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion.

Experimental/calculated data:
LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 423)

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)

Irritation

Assessment of irritating effects:
Not irritating to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eyes damages/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (OECD Guideline 429)

Germ cell mutagenicity

Assessment of mutagenicity:

Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Experimental/calculated data:

Ames-test

Bacteria: negative (OECD Guideline 471)

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No adverse effects were observed after repeated exposure in animal studies.

12. Ecological Information

Ecotoxicity

Toxicity to fish:

LC50 (96 h) > 120 mg/l, Brachydanio rerio (OECD Guideline 203, static)

The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates:

EC50 (48 h) > 120 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The details of the toxic effect relate to the nominal concentration.

Microorganisms/Effect on activated sludge:

EC20 (180 min) > 1,000 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic)

The details of the toxic effect relate to the nominal concentration.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):
Not readily biodegradable (by OECD criteria). Poorly biodegradable.

Elimination information:
< 10 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic)

13. Disposal Considerations

Observe national and local legal requirements.

14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport

ADNR

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Regulations of the European union (Labelling) / National legislation/Regulations

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as in Annex VI REGULATION (EC) No 1272/2008 and Annex VI of Directive 67/548/EEC:

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

16. Other Information

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.