1. Identification

Product identifier used on the label

Soluplus®

Recommended use of the chemical and restriction on use

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Synonyms: Acetic acid ethenyl ester, polymer with 1-ethenyl hexahydro-2H-azepin-2-one and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl

2. Hazards Identification


Classification of the product

Combustible Dust  Combustible Dust (1)  Combustible Dust

Label elements

Signal Word:
Warning

Hazard Statement:
May form combustible dust concentration in air.

Hazards not otherwise classified

Avoid dust development and deposition - dust explosion risk. Take precautionary measures against static discharges. The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

3. Composition / Information on Ingredients


Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air.

If on skin:
Wash thoroughly with soap and water.

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

If swallowed:
Rinse mouth and then drink 200-300 ml of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam, carbon dioxide
Unsuitable extinguishing media for safety reasons:
water jet

Additional information:
Avoid whirling up the material/product because of the danger of dust explosion.

**Special hazards arising from the substance or mixture**
Hazard during fire-fighting:
carbon dioxide, carbon monoxide, nitrogen oxides
The substances/groups of substances mentioned can be released in case of fire. Evolution of fumes/fog.

**Advice for fire-fighters**
Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

**Further information:**
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
The degree of risk is governed by the burning substance and the fire conditions.

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

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### 6. Accidental release measures

**Further accidental release measures:**
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

**Personal precautions, protective equipment and emergency procedures**
Avoid dust formation. Avoid all sources of ignition: heat, sparks, open flame. Use personal protective clothing. Information regarding personal protective measures see, section 8.

**Environmental precautions**
Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

**Methods and material for containment and cleaning up**
For small amounts: Contain with dust binding material and dispose of.
For large amounts: Sweep/shovel up.
Dispose of absorbed material in accordance with regulations. Avoid raising dust.

Nonsparking tools should be used.

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### 7. Handling and Storage

**Precautions for safe handling**
Ensure thorough ventilation of stores and work areas. Provide exhaust ventilation if dust is formed. Take precautionary measures against static discharges. Use antistatic tools. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

**Conditions for safe storage, including any incompatibilities**

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Avoid dust formation. Take precautionary measures against static discharges. Protect against heat.

### 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

**Advice on system design:**
It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

**Personal protective equipment**

**Respiratory protection:**
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) particulate respirator.

**Hand protection:**
Wear chemical resistant protective gloves., Consult with glove manufacturer for testing data.

**Eye protection:**
Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures.

**Body protection:**
Body protection must be chosen based on level of activity and exposure.

**General safety and hygiene measures:**
Wearing of closed work clothing is recommended. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dust. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>powder</td>
</tr>
<tr>
<td>Odour:</td>
<td>faint specific odour</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not determined</td>
</tr>
<tr>
<td>Colour:</td>
<td>white to light yellow</td>
</tr>
<tr>
<td>pH value:</td>
<td>3 - 5.5 (25 %m, 20 °C)</td>
</tr>
</tbody>
</table>
melting point: > 58 °C
(decomposition):
Boiling point: not applicable
Flash point: not applicable
Flammability: not highly flammable (other)
Lower explosion limit: For solids not relevant for classification and labelling.
Upper explosion limit: For solids not relevant for classification and labelling.
Autoignition: not determined
Vapour pressure: not determined
Density: Study does not need to be conducted.
Bulk density: approx. 500 - 600 kg/m³
Vapour density: not applicable
Partitioning coefficient n-octanol/water (log Pow): not determined
Self-ignition temperature: > 350 °C (VDI 2263, sheet 1, 1.4.1)
Thermal decomposition: not determined
Viscosity, dynamic: not applicable
Solubility in water: completely soluble
Evaporation rate: The product is a non-volatile solid.

10. Stability and Reactivity

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

Corrosion to metals:
No corrosive effect on metal.

Oxidizing properties:
not fire-propagating

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

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
No hazardous reactions if stored and handled as prescribed/indicated.
The product is chemically stable.

Conditions to avoid
See MSDS section 7 - Handling and storage. Avoid dust formation.

Incompatible materials
atmospheric moisture

Hazardous decomposition products

Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.
Thermal decomposition: not determined

11. Toxicological information

**Primary routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**Acute Toxicity/Effects**

**Acute toxicity**

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

**Oral**

Type of value: LD50
Species: rat (male/female)
Value: > 5,000 mg/kg (OECD Guideline 423)

**Dermal**

Type of value: LD50
Species: rat (male/female)
Value: > 5,000 mg/kg (OECD Guideline 402)

**Assessment other acute effects**

No data available.

**Irritation / corrosion**

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

**Skin**

Species: rabbit
Result: non-irritant
Method: OECD Guideline 404

**Eye**

Species: rabbit
Result: non-irritant
Method: OECD Guideline 405

**Sensitization**

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

**Mouse Local Lymph Node Assay (LLNA)**

Species: mouse
Result: Non-sensitizing.
Method: OECD Guideline 429

**Aspiration Hazard**

No data available.

**Chronic Toxicity/Effects**
Repeated dose toxicity
Assessment of repeated dose toxicity: No adverse effects were observed after repeated exposure in animal studies.

Genetic toxicity
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.

Carcinogenicity
Assessment of carcinogenicity: Not evaluated

Reproductive toxicity
Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity
Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Symptoms of Exposure
No significant symptoms are expected due to the non-classification of the product.

12. Ecological Information

Toxicity

Aquatic toxicity
Assessment of aquatic toxicity:
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. There is a high probability that the product is not acutely harmful to aquatic organisms.

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

Toxicity to microorganisms
OECD Guideline 209 aquatic activated sludge, domestic/EC20 (180 min): > 1,000 mg/l
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.
< 10 % CO2 formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic)

Bioaccumulative potential

Bioaccumulation potential
not determined

Mobility in soil

Assessment transport between environmental compartments
No data available.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations. Do not discharge into waterways or sewer systems without proper authorization.

Container disposal:
Dispose of in accordance with national, state and local regulations.

14. Transport Information

Land transport
USDOT
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

Federal Regulations

Registration status:
Chemical TSCA, US blocked / not listed
Pharma TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

NFPA Hazard codes:
Health: 0 Fire: 1 Reactivity: 0 Special:
16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2018/10/24

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