1. Identification

Product identifier

Sokalan® HP 25

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

Relevant identified uses: Raw material for the chemical-technical industry

Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Operating Division Care Chemicals

Telephone: +49 621 60-44676
E-mail address: emd-ems-ehs-masterdata@basf.com

Emergency telephone number

International emergency number:
Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

| Eye Dam./Irrit. 1 |
| Aquatic Acute 2 |

For the classifications not written out in full in this section the full text can be found in section 16.
Label elements

Globally Harmonized System (GHS)

Pictogram:

Signal Word: Danger

Hazard Statement:
H318 Causes serious eye damage.
H401 Toxic to aquatic life.

Precautionary Statements (Prevention):
P280 Wear eye/face protection.
P273 Avoid release to the environment.

Precautionary Statements (Response):
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.

Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.

Other hazards

According to UN GHS criteria

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Chemical nature
Maleic anhydride, polymer with diisobutene, ester with PEG-C12-14-alkylether, sodium salt, in water

Hazardous ingredients (GHS)
According to UN GHS criteria

- Maleic anhydride, polymer with diisobutene, ester with PEG-C12-14-alkylether, sodium salt
- Content (W/W): >= 25 % - < 50 %
- Eye Dam./Irrit. 1
- REACH registration number: 02-2119630694-36-0000
- Aquatic Acute 2
- H318, H401

For the classifications not written out in full in this section the full text can be found in section 16.

4. First-Aid Measures

Description of first aid measures
Remove contaminated clothing.

If inhaled:
- Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:
- Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:
- Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:
- Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media
Suitable extinguishing media:
- water spray, dry powder, foam

Special hazards arising from the substance or mixture
- harmful vapours, carbon oxides
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

**Advice for fire-fighters**
Special protective equipment:
- Wear a self-contained breathing apparatus.

Further information:
- Contaminated extinguishing water must be disposed of in accordance with official regulations.

### 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**
Use personal protective clothing. Information regarding personal protective measures see, section 8.

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

**Methods and material for containment and cleaning up**
- For large amounts: Dike spillage. Pump off product.
- For residues: Pick up with suitable absorbent material.
- Dispose of absorbed material in accordance with regulations.

### 7. Handling and Storage

**Precautions for safe handling**
No special measures necessary provided product is used correctly.

Protection against fire and explosion:
- No special precautions necessary.

**Conditions for safe storage, including any incompatibilities**
Suitable materials for containers: Low density polyethylene (LDPE), glass, High density polyethylene (HDPE)
Further information on storage conditions: Keep container tightly closed and in a cool place.

- Protect from temperatures below: 5 °C
- Protect from temperatures above: 30 °C

### 8. Exposure Controls/Personal Protection

**Control parameters**

Components with occupational exposure limits
No occupational exposure limits known.

**Exposure controls**

**Personal protective equipment**

**Respiratory protection:**
Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

**Hand protection:**
Chemical resistant protective gloves (EN 374)
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):
e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
Manufacturer's directions for use should be observed because of great diversity of types.

**Eye protection:**
Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

**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**
Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

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### 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

- **Form:** aqueous solution
- **Colour:** yellowish
- **Odour:** product specific
- **Odour threshold:** not determined
- **pH value:** approx. 7.5 (10 % (m)) (DIN 19268)
- **Solidification temperature:** approx. -4 °C
- **Boiling point:** approx. 100 °C contains water
Flash point: A flash point determination is unnecessary due to the high water content., Aqueous preparation

Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.

Flammability: not flammable

Lower explosion limit: For liquids not relevant for classification and labelling.

Upper explosion limit: For liquids not relevant for classification and labelling.

Ignition temperature: > 200 °C (DIN 51794)

Vapour pressure: approx. 23 mbar (20 °C)

Density: approx. 1.1 g/cm3 (23 °C) (DIN 51757)

Relative density: No data available.

Relative vapour density (air): not determined

Solubility in water: soluble

Partitioning coefficient n-octanol/water (log Kow): not applicable

Self ignition: not self-igniting

Thermal decomposition: > 100 °C

Viscosity, dynamic: approx. 10.000 mPa.s (23 °C)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Other information

Miscibility with water: miscible in all proportions

Grain size distribution: The substance / product is marketed or used in a non solid or granular form.

Solids content: approx. 45 %

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
No hazardous reactions when stored and handled according to instructions.

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

Incompatible materials
Substances to avoid:
light metals, strong bases, strong acids, mild steel, reactive chemicals, carbon steel (iron)

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

11. Toxicological Information

Information on toxicological effects

Acute toxicity
Experimental/calculated data:
LD50 rat (oral): > 2.000 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation):
not determined

LD50 rat (dermal):
not determined

Irritation
Experimental/calculated data:
Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)

Information on: Maleic anhydride, polymer with disobutene, ester with PEG-C12-14-alkylether, sodium salt
Assessment of irritating effects:
May cause severe damage to the eyes. Not irritating to the skin.
Respiratory/Skin sensitization

Assessment of sensitization:
- No data available.

Germ cell mutagenicity

Assessment of mutagenicity:
The substance was not mutagenic in bacteria.

Carcinogenicity

Assessment of carcinogenicity:
- No data available.

Reproductive toxicity

Assessment of reproduction toxicity:
- No data available.

Developmental toxicity

Assessment of teratogenicity:
- No data available.

Specific target organ toxicity (single exposure)

Remarks: No data available.

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

Assessment of repeated dose toxicity:
- No data available.

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Toxicity

Toxicity to fish:
LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1)

Aquatic invertebrates:
EC50 (48 h) > 1 - 10 mg/l, Daphnia magna (Directive 79/831/EEC, static)

Aquatic plants:
EC50 (72 h) > 100 mg/l (growth rate), Scenedesmus subspicatus

acute Effect

No observed effect concentration (72 h) > 1 mg/l (growth rate), Scenedesmus subspicatus

long-term effect

Microorganisms/Effect on activated sludge:
EC10 (17 h) > 1,000 mg/l, Pseudomonas putida

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Chronic toxicity to fish:
No data available.

Chronic toxicity to aquatic invertebrates:
No observed effect concentration (21 d) > 1 mg/l, Daphnia magna

Assessment of terrestrial toxicity:
No data available concerning terrestrial toxicity.

**Persistence and degradability**

Assessment biodegradation and elimination (H2O):
Not readily biodegradable (by OECD criteria). Easily eliminated from water.

Elimination information:
> 70 % DOC reduction (28 d) (OECD 303A; ISO 11733; 92/69 EEC,V, C.10) Easily eliminated from water.

>= 90 % Bismuth-active substance

**Bioaccumulative potential**

Assessment bioaccumulation potential:
Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

**Mobility in soil**

Assessment transport between environmental compartments:
Volutility: The substance will not evaporate into the atmosphere from the water surface.

**Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

**Other adverse effects**
The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

Additional information

Add. remarks environm. fate & pathway:
Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:
Do not discharge product into the environment without control.

13. Disposal Considerations

Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:
Uncontaminated packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport

ADR

- UN number: Not classified as a dangerous good under transport regulations
- UN proper shipping name: Not applicable
- Transport hazard class(es): Not applicable
- Packing group: Not applicable
- Environmental hazards: Not applicable
- Special precautions for user: None known

RID

- UN number: Not classified as a dangerous good under transport regulations
- UN proper shipping name: Not applicable
- Transport hazard class(es): Not applicable
- Packing group: Not applicable
- Environmental hazards: Not applicable
- Special precautions for user: None known
**Inland waterway transport**

ADN

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Transport in inland waterway vessel
Not evaluated

**Sea transport**

IMDG

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**Air transport**

IATA/ICAO

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**Transport in bulk according to Annex II of MARPOL and the IBC Code**

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15. Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Other Information

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. In particular this concerns the application for products that are the object of special standards and regulations.

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

| Eye Dam./Irrit. | Serious eye damage/eye irritation |
| Aquatic Acute | Hazardous to the aquatic environment - acute |
| H318 | Causes serious eye damage. |
| H401 | Toxic to aquatic life. |

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. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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