

Lunasol@ SK

The Revision detect 2030/07/28

# Safety Data Sheet

Lupasol® SK

Revision date: 2020/04/28

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Version: 5.0

(30048291/SDS\_GEN\_US/EN)

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#### 1. Identification

#### Product identifier used on the label

# Lupasol® SK

#### Recommended use of the chemical and restriction on use

Recommended use\*: formulation auxiliary for the chemical industry

\* 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.

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#### Details of the supplier of the safety data sheet

Company: BASE 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

Chemical family:

polyethyleneimine, modified, in water

#### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

**Aquatic Acute** Aquatic Chronic

3

Hazardous to the aquatic environment - acute Hazardous to the aquatic environment - chronic

# Label elements

Hazard Statement:

# Assemble Safety Data Sheet

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Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects. the presenction of personal control. The resimilar on occurs well by the state of the state of the

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Avoid release to the environment.

Precautionary Statements (Disposal):

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Dispose of contents and container to hazardous or special waste

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The product has not been becled

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collection point.

#### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## 3. Composition / Information on Ingredients

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Proprietary polymer

CAS Number: Trade Secret Content (W/W): >= 20.0 - < 25.0% Synonym: No data available.

#### 4. First-Aid Measures

#### Description of first aid measures

#### General advice:

Remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air. Assist in breathing if necessary. Seek medical attention.

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

#### If in eyes:

Flush with copious amounts of water for at least 15 minutes. Hold eyelids open to facilitate rinsing. If irritation develops, seek medical attention.

#### If swallowed:

Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

### Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No hazard is expected under intended use and appropriate handling.

### Indication of any immediate medical attention and special treatment needed

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to physician

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no see a ward the known specific antidote.

# 5. Fire-Fighting Measures

### **Extinguishing media**

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:

No data available.

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

No particular hazards known.

#### Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

#### Further information:

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

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

#### **Environmental precautions**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal.

#### 7. Handling and Storage

#### Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Wear suitable gloves and eye/face protection.

Protection against fire and explosion:

No special precautions necessary.

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

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Storage stability:

Storage temperature: 5 - 35 °C

The stated storage temperature should be noted.

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# 8. Exposure Controls/Personal Protection

The state of the second of the No occupational exposure limits known.

#### Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

### Personal protective equipment

#### Respiratory protection:

Respiratory protection not required.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

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#### Hand protection:

Chemical resistant protective gloves, rubber, plastic

#### Eye protection:

Safety glasses with side-shields.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Wash soiled clothing immediately.

# 9. Physical and Chemical Properties

Form:

Odour:

ether-like

Odour threshold:

No applicable information available.

Colour:

yellowish

pH value:

7.8 - 8.7

(measured with the undiluted

substance)

solidification

approx. -5°C

temperature:

Boiling point:

approx. 100 °C

Sublimation point:

No applicable information available.

Flash point:

> 100 °C

(DIN 51758)

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Flammability:

not flammable

(derived from flash

point)

(DIN 19268)

Lower explosion limit:

For liquids not relevant for

classification and labelling. The lower

explosion point may be 5 - 15 °C

below the flash point.

Upper explosion limit:

For liquids not relevant for

Autoignition:

classification and labelling.

Vapour pressure:

380 °C 120 mbar

(50°C)

(DIN 51794)

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Density: approx. 1.06 g/cm3

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Actions appeal Relative density: No data available.

No data:available. A shallenger of the comment Vapour density:

octanol/water (log Pow): Self-ignition not determined

Self-ignition and self-igniting

temperature:

Thermal decomposition: No decomposition if correctly stored and handled.

500 - 1,000 mPa.s Viscosity, dynamic: (DIN EN ISO 2555)

(20°C)

Viscosity, kinematic:

% volatiles:

No applicable information available.

0.0 % Surface Coatings - Volatile Matter Content

(20 °C) Solubility in water:

soluble

completely (e.g. >=90%) Miscibility with water:

No applicable information available. Solubility (quantitative): No applicable information available. Solubility (qualitative):

Molar mass: No data available.

Evaporation rate: Value can be approximated from

Henry's Law Constant or vapor

pressure.

If necessary, information on other physical and chemical Other Information:

parameters is indicated in this section.

# 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

#### **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.

#### Conditions to avoid

No special precautions other than good housekeeping of chemicals.

#### Incompatible materials

No substances known that should be avoided.

#### Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

No decomposition if correctly stored and handled.

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## was a least of 11. Toxicological information

## Primary routes of exposure

the court of the flower once limited transport 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: The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard. Virtually nontoxic after a single ingestion.

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#### Oral

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Type of value: LD50 Species: rat (male/female)

Value: 13,400 mg/kg (BASF-Test)

#### **Inhalation**

Species: rat Value: (IRT) Exposure time: 8 h

No mortality within the stated exposition time as shown in animal studies.

#### Dermal

No applicable information available.

#### Assessment other acute effects

No applicable information available.

#### Irritation / corrosion

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

Species: rabbit Result: non-irritant Method: Draize test

#### <u>Eye</u>

Species: rabbit Result: non-irritant Method: Draize test

#### Sensitization

Assessment of sensitization: Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

#### **Aspiration Hazard**

No aspiration hazard expected.

#### **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure to the substance by oral administration leads to effects similar to those found after single exposure.

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Associate States

Genetic toxicity

and a data Assessment of mutagenicity: The substance was not mutagenic in bacteria/serdensity. Yapour density:

and the negative way

<u>Carcinogenicity</u>

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Sectioning coefficients in the determine to Assessment of carcinogenicity: None of the components in this product at concentrations greater and a than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogental-aguitance, is a case of the manager 

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Reproductive toxicity

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Assessment of reproduction toxicity: No data available.

**Teratogenicity** 

Assessment of teratogenicity: No data available.

## 12. Ecological Information

#### **Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Acute effects on aquatic organisms are due to cationic charge, which is likely to be neutralized in natural water courses by anionic species.

Toxicity to fish

LC50 (96 h) 33 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 92/69/EEC, C.1, static) Nominal concentration.

Aquatic invertebrates

EC50 (48 h) 19.8 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) Nominal concentration.

#### Microorganisms/Effect on activated sludge

Toxicity to microorganisms

OECD Guideline 209 aerobic

activated sludge/EC20 (30 min): 100 - 1,000 mg/l

#### Persistence and degradability

Assessment biodegradation and elimination (H2O)

Not readily biodegradable (by OECD criteria). Poorly biodegradable.

Elimination information

< 10 % BOD of the ThOD (29 d) (OECD Guideline 301 F) (aerobic)

#### Bioaccumulative potential

Bioaccumulation potential

No data available.

#### Mobility in soil

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Carlos Andrews

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<u>Assessment transport between environmental compartments</u> No data available.

# Additional information

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

# 13. Disposal considerations

# Waste disposal of substance:

Incinerate or dispose of in a licensed facility. Do not discharge into drains/surface waters/groundwater.

#### Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

# 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

#### **VOC** content:

Surface Coatings - Volatile Matter Content

#### Federal Regulations

### Registration status:

Chemical

TSCA, US released / listed

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

#### NFPA Hazard codes:

Health: 1

Fire: 0

Reactivity: 0

Special:

#### **HMIS III rating**

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Health: 1 Flammability: 1

Physical hazard: 0

#### 16. Other Information

# SDS Prepared by: If you also get it and a his later problem while understanding the gradual

BASE NA Product Regulations of the recommendation and the SDS Prepared on: 2020/04/28

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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