

# Safety Data Sheet

## Kolliphor® SLS Fine

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### 1. Identification

#### Product identifier used on the label

**Kolliphor® SLS Fine**

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

Recommended use\*: pharmaceutical excipient

\* 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: Sodium dodecyl sulphate

### 2. Hazards Identification

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

#### Classification of the product

Flam. Sol.	2	Flammable solids
Acute Tox.	4 (Inhalation - dust)	Acute toxicity
Acute Tox.	4 (oral)	Acute toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Aquatic Acute	2	Hazardous to the aquatic environment - acute

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Aquatic Chronic  
Combustible Dust

3  
Combustible Dust (1)

Hazardous to the aquatic environment - chronic  
Combustible Dust

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H228	Flammable solid.
	May form combustible dust concentration in air.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye protection or face protection.
P261	Avoid breathing dust.
P273	Avoid release to the environment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.
P240	Ground and bond container and receiving equipment.

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P330	Rinse mouth
P370 + P378	In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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### Hazards not otherwise classified

The product is under certain conditions capable of dust explosion. Fine dust can form an inflammable mixture together with air.

#### Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 3 %

## 3. Composition / Information on Ingredients

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

Sodium lauryl sulfate

CAS Number: 151-21-3

Content (W/W): 75.0 - 100.0%

Synonym: Sulfuric acid, monododecyl ester, sodium salt

## 4. First-Aid Measures

### Description of first aid measures

#### **General advice:**

Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

#### **If inhaled:**

Keep patient calm, remove to fresh air. If adverse health effects develop seek medical attention.

#### **If on skin:**

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing and shoes.

Seek medical attention.

#### **If in eyes:**

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. If irritation develops, seek medical attention.

#### **If swallowed:**

Rinse mouth and then drink 200-300 ml of water. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Seek medical attention.

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

*Information on: Sodium lauryl sulfate*

*Symptoms: Overexposure may cause:; corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*  
*Inhalation may provoke the following symptoms:; irritation of respiratory tract, coughing*  
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### Indication of any immediate medical attention and special treatment needed

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### Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

### Extinguishing media

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

Hazards during fire-fighting:  
carbon dioxide, carbon monoxide, harmful vapours, sulfur oxides  
The substances/groups of substances mentioned can be released in case of fire. Evolution of fumes/fog. Burning produces harmful and toxic fumes. The product is combustible.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Wear self-contained breathing apparatus and chemical-protective clothing.

### Further information:

Cool endangered containers with water-spray. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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

Use personal protective clothing. Information regarding personal protective measures, see section 8. Avoid dust formation. Ensure adequate ventilation. Do not breathe dust. Wear respiratory protection if ventilation is inadequate. Avoid contact with the skin, eyes and clothing.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

Dispose of absorbed material in accordance with regulations. Avoid raising dust. Cleaning operations should be carried out only while wearing breathing apparatus.

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Nonsparking tools should be used.

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## 7. Handling and Storage

### Precautions for safe handling

Avoid dust formation. Ensure thorough ventilation of stores and work areas. Keep container tightly closed. Avoid naked flames, sparking and sources of ignition. Wear suitable protective clothing and eye/face protection. 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

Suitable materials for containers: Low density polyethylene (LDPE), High density polyethylene (HDPE), Paper/Fibreboard

Further information on storage conditions: Keep only in the original container. Keep container tightly sealed.

### Storage stability:

Storage temperature:  $\leq 30^{\circ}\text{C}$

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## 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

### Advice on system design:

Local exhaust ventilation preferred. 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:

Breathing protection if dusts are formed. Wear a NIOSH-certified (or equivalent) respirator as necessary.

#### Hand protection:

Chemical resistant protective gloves

#### Eye protection:

Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures.

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### Body protection:

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

### General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Ensure adequate ventilation. Do not breathe dust. Avoid ingestion. 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.

## 9. Physical and Chemical Properties

Form:	powder	
Odour:	odourless	
Odour threshold:	not applicable, odour not perceivable	
Colour:	white	
pH value:	9.1 ( 1 %(m), 20 °C)	(DGF-H-III 1)
Melting point:	205 °C	
Freezing point:	205 °C	
Boiling point:	216 °C The substance / product decomposes.	(Directive 84/449/EEC, A.2)
Flash point:	170 °C	(Directive 84/449/EEC, A.9)
Flammability:	Flammable solid. Keep away from heat, spark, and open flames.	(Directive 84/449/EEC, A.10)
Flammability of Aerosol Products:	not applicable, the product does not form flammable aerosoles	
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	Not determined. For solids not relevant for classification and labelling.	
Vapour pressure:	0.0018 mbar ( 20 °C)	(Directive 84/449/EEC, A.4)
Bulk density:	200 - 300 kg/m3	(DGF-H-II 1b)
Vapour density:	not applicable	
Partitioning coefficient n-octanol/water (log Pow):	<= -2.03 ( 20 °C)	(Directive 84/449/EEC, A.8)
Self-ignition temperature:	Keep away from heat, spark, and open flames.	
Thermal decomposition:	>= 360 °C (DSC (DIN 51007))	
Viscosity, dynamic:	not applicable, the product is a solid	
Viscosity, kinematic:	No data available.	
Solubility in water:	> 130 g/l ( 20 °C)	
Solubility (quantitative):	partly soluble	
Solubility (qualitative):	soluble solvent(s): distilled water,	
Molar mass:	not applicable	
Evaporation rate:	not applicable	

## 10. Stability and Reactivity

### Reactivity

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

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Corrosion to metals:  
No data available.

Oxidizing properties:  
not fire-propagating

Minimum ignition energy:  
3 - 10 mJ, 1,013 hPa, 20 °C, Inductivity: 1 mH  
The product is capable of dust explosion.

### Chemical stability

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

### Possibility of hazardous reactions

Dust explosion hazard.  
Reacts with oxidizing agents. Reacts with bases. Reacts with strong acids.

### Conditions to avoid

Avoid dust formation. Avoid electro-static charge. Avoid all sources of ignition: heat, sparks, open flame.

### Incompatible materials

No substances known that should be avoided.

### Hazardous decomposition products

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

Thermal decomposition:  
≥ 360 °C (DSC (DIN 51007))

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## 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: Of moderate toxicity after single ingestion. Of moderate toxicity after short-term inhalation. Of low toxicity after short-term skin contact.

#### Oral

Type of value: LD50  
Species: rat (male/female)  
Value: 1,200 mg/kg (OECD Guideline 401)

#### Inhalation

The inhalation of dusts represents a potential acute hazard. Literature data.

#### Dermal

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Type of value: LD50  
Value: > 2,000 mg/kg

### Assessment other acute effects

Assessment of STOT single:  
Causes temporary irritation of the respiratory tract.

### Irritation / corrosion

Assessment of irritating effects: May cause severe damage to the eyes. Skin contact causes irritation.

### Skin

Method: OECD Guideline 404

Species: rabbit  
Result: Irritant.  
Method: similar to OECD guideline 404

### Eye

Method: OECD Guideline 405

Species: rabbit  
Result: Risk of serious damage to eyes.  
Method: OECD Guideline 405

### Sensitization

Assessment of sensitization: No sensitizing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Aspiration Hazard

No aspiration hazard expected.

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: None known

### Genetic toxicity

Assessment of mutagenicity: No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in a test with mammals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

### Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Teratogenicity

Assessment of teratogenicity: The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.



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The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

## 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.

#### Toxicity to fish

LC50 (96 h) 29 mg/l, Pimephales promelas (OECD Guideline 203, Flow through.)

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

#### Aquatic invertebrates

LC50 (48 h) 5.55 mg/l, Ceriodaphnia dubia (Daphnia test acute, Flow through.)

#### Aquatic plants

EC50 (72 h) > 120 mg/l (growth rate), Desmodismus subspicatus (DIN 38412 Part 9, static)

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

#### Chronic toxicity to aquatic invertebrates

No observed effect concentration (7 d) 0.684 mg/l, Ceriodaphnia dubia (Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

#### Assessment of terrestrial toxicity

No data available.

### Microorganisms/Effect on activated sludge

#### Toxicity to microorganisms

##### Oxygen consumption test aquatic

activated sludge, domestic/EC50 (3 h): 135 mg/l

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

##### DIN 38412 Part 8 aquatic

bacterium/EC10 (16 h): 1,084 mg/l

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

### Persistence and degradability

#### Assessment biodegradation and elimination (H2O)

Readily biodegradable (according to OECD criteria).

#### Elimination information

95 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic, non-adapted) Based on OECD criteria the product is readily biodegradable.

### Bioaccumulative potential

#### Assessment bioaccumulation potential

Accumulation in organisms is not to be expected.

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### Bioaccumulation potential

No data available.

### **Mobility in soil**

#### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.  
Adsorption to solid soil phase is not expected.

### **Additional information**

Other ecotoxicological advice:  
No data available.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Observe national and local legal requirements.

### **Container disposal:**

Since emptied container retains product residue, all labeled hazard precautions must be observed.  
Dispose of in accordance with national, state and local regulations.

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## 14. Transport Information

### **Land transport**

USDOT

Hazard class:	4.1
Packing group:	III
ID number:	UN 1325
Hazard label:	4.1
Proper shipping name:	FLAMMABLE SOLID, ORGANIC, N.O.S. (contains SODIUM DODECYL SULPHATE)

### **Sea transport**

IMDG

Hazard class:	4.1
Packing group:	III
ID number:	UN 1325
Hazard label:	4.1
Marine pollutant:	NO
Proper shipping name:	FLAMMABLE SOLID, ORGANIC, N.O.S. (contains SODIUM DODECYL SULPHATE)

### **Air transport**

IATA/ICAO

Hazard class:	4.1
Packing group:	III
ID number:	UN 1325
Hazard label:	4.1
Proper shipping name:	FLAMMABLE SOLID, ORGANIC, N.O.S. (contains SODIUM DODECYL SULPHATE)

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### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Pharma TSCA, US released / exempt

Chemical TSCA, US released / listed

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

#### State regulations

##### State RTK

PA

##### CAS Number

7757-82-6

##### Chemical name

Sodium sulfate

##### NFPA Hazard codes:

Health: 2 Fire: 2 Reactivity: 0 Special:

##### HMIS III rating

Health: 2 Flammability: 2 Physical hazard: 0

### 16. Other Information

#### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2020/04/30

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