

SAFETY DATA SHEET

1. Identification

Product identifier: SIPERNAT® D 10

Chemical name: Silicones and siloxanes, dimethyl-, reaction products with silica

Other means of identification

Recommended use: Anticaking agent
Defoamant
Flow-promoting agent.

Recommended restrictions: Not determined.

Manufacturer/Importer/Distributor Information

Company Name : Evonik India Pvt Ltd
Krislon House, Saki Vihar Road,
Sakinaka, Andheri (East)
Mumbai - 400072
Maharashtra, India

Telephone : +91 22 6723 8800

E-mail : sds-hu@evonik.com

Emergency telephone number:

24-Hour Health : 000-800-100-7141
Emergency

2. Hazard(s) identification

Classification according to GHS

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements Not applicable

Other hazards: No data available.

3. Composition/information on ingredients

Chemical name:

Silicones and siloxanes, dimethyl-, reaction products with silica

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Silicones and siloxanes, dimethyl-, reaction products with silica	No data available.	67762-90-7	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of necessary first-aid measures

Inhalation:	In case product dust is released: Possible discomfort: cough, sneezing Move to fresh air.
Skin Contact:	Wash off with plenty of water and soap.
Eye contact:	Possible discomfort is due to foreign substance effect. Rinse thoroughly with plenty of water keeping eyelid open. In case of persistent discomfort: Consult an ophthalmologist.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	None known.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	No data available.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Water spray, foam, CO ₂ , dry powder. Adapt fire-extinguishing measures to surroundings
Unsuitable extinguishing media:	Do not use full-force water jet in order to avoid dispersal and spread of the fire.
Special hazards arising from the substance or mixture:	May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters:	In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment.
Methods and material for containment and cleaning up:	Sweep up or vacuum up spillage and collect in suitable container for disposal.
Environmental Precautions:	Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary. see also section 7.
Safe handling advice:	Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If necessary: Local ventilation.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Keep in a dry place. Take precautionary measures against static discharges.
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Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
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Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

Observe national threshold limit values.

Appropriate Engineering Controls

Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary. see also section 7.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: Safety glasses with side shields If dust occurs: basket-shaped glasses

Skin Protection

Hand Protection: Additional Information: Wear protective gloves made of the following materials: material, rubber, leather. Additional Information: The data about break through time/strength of material is not valid for undissolved solids/dust.

Other: No special protective equipment required. Preventive skin protection

Respiratory Protection: No special protective equipment required. If dust occurs: Dust mask with P2 particle filter

Hygiene measures: When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: solid

Form: Powder

Color: White

Odor: Odorless

Odor Threshold: Not applicable

Melting Point: Not applicable Decomposition

Boiling Point: Not applicable Decomposition

Flammability: Not determined.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: Not determined.

Explosive limit - lower:	Not determined.
Flash Point:	Not applicable solid
Self Ignition Temperature:	Not capable of spontaneous combustion or heating.
Decomposition Temperature:	> 572 °F/> 300 °C
pH:	Approximate 10,3 (DIN / ISO 787 / 9) (50 g/l, 68 °F/20 °C) 1: 1 in suspension
Viscosity	
Dynamic viscosity:	Not applicable solid
Kinematic viscosity:	Not applicable solid
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	hardly soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Vapor pressure:	Not applicable
Relative density:	No data available.
Density:	Approximate 2 g/cm ³ (68 °F/20 °C)
Bulk density:	No data available.
Vapor density (air=1):	Not applicable
Particle characteristics	
Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.
Other information	
Explosive properties:	Not to be expected in view of the structure
Oxidizing properties:	Not to be expected in view of the structure
Minimum ignition temperature:	Data from a comparable product: 932 °F/500 °C (VDI 2263)
Dust explosion properties:	Not dust explosive
Evaporation Rate:	Not applicable
Minimum ignition energy:	(VDI 2263) > 10 Joule

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reactions are known if properly handled and stored.
Conditions to avoid:	Hydrophobic properties disappear at temperatures > 300°C

Incompatible Materials:	None known.
Hazardous Decomposition Products:	Carbon Monoxide. Carbon Dioxide. organic products of decomposition Stable under normal conditions. Product will not undergo hazardous polymerization.

11. Toxicological information

General information: Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.

Information on toxicological effects

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): > 6.350 mg/kg (analogous OECD method) comparable product, Based on available data, the classification criteria are not met.

Components: Silicones and siloxanes, dimethyl-, reaction products with silica
LD 50 (Rat): > 5.000 mg/kg (analogy)

Dermal

Product: Based on available data, the classification criteria are not met.

Components: Silicones and siloxanes, dimethyl-, reaction products with silica
No classification

Inhalation

Product: No data available.

Components: Silicones and siloxanes, dimethyl-, reaction products with silica
No classification, Dusts, mists and fumes Not applicable, Vapour

Repeated dose toxicity

Product: No data available.

Components: Silicones and siloxanes, dimethyl-, reaction products with silica
No data available.

Skin Corrosion/Irritation

Not irritating

Product:

OECD 404 (Rabbit): Not irritating; comparable product, Based on available data, the classification criteria are not met.

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica

OECD 404 (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation

Not irritating

Product:

OECD 405 (Rabbit): Not irritating; comparable product, Based on available data, the classification criteria are not met.

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica

OECD 405 (Rabbit): Not irritating

Respiratory or Skin Sensitization

Product:

Not known.

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica

No data available.

Carcinogenicity

Product:

No evidence that cancer may be caused.

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica

No data available.

Germ Cell Mutagenicity

no evidence of mutagenic effects

In vitro

Product:

Ames test (OECD 471): negative; comparable product Based on available data, the classification criteria are not met.;

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica

Ames test (OECD 471): negative (analogy)

In vivo

Product:

No data available.

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica

No data available.

Reproductive toxicity

Product:

no evidence of reproductiontoxic properties

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica No data available.

Specific Target Organ Toxicity - Single Exposure

Product: no evidence for hazardous properties

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: no evidence for hazardous properties

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica No data available.

Aspiration Hazard

Product: Not classified

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica Not applicable

Information on health hazards
Other hazards

Product: An Expert Judgment stated that no classification is necessary based on present knowledge.;

12. Ecological information
Ecotoxicity:
Acute hazards to the aquatic environment:
Fish

Product: LC 50 (Brachydanio rerio (zebrafish), 96 h): > 10.000 mg/l The reported toxic effects relate to the nominal concentration. tested substance: Silicon dioxide, derived from chemical synthesis

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica LC 50 (Danio rerio, 96 h): > 10.000 mg/l The reported toxic effects relate to the nominal concentration. tested substance: Silicon dioxide, derived from chemical synthesis

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 24 h): > 1.000 mg/l The reported toxic effects relate to the nominal concentration. tested substance: Silicon dioxide, derived from chemical synthesis

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica EC 50 (Daphnia magna, 24 h): > 1.000 mg/l The reported toxic effects relate to the nominal concentration. tested substance: Silicon dioxide, derived from chemical synthesis

Toxicity to Aquatic Plants

Product: No data available.

Components:
Silicones and siloxanes, No data available.
dimethyl-, reaction
products with silica

Toxicity to microorganisms

Product: No data available.

Components:
Silicones and siloxanes, No data available.
dimethyl-, reaction
products with silica

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:
Silicones and siloxanes, No data available.
dimethyl-, reaction
products with silica

Aquatic Invertebrates

Product: No data available.

Components:
Silicones and siloxanes, No data available.
dimethyl-, reaction
products with silica

Toxicity to Aquatic Plants

Product: No data available.

Components:
Silicones and siloxanes, No data available.
dimethyl-, reaction
products with silica

Toxicity to microorganisms

Product: No data available.

Components:
Silicones and siloxanes, No data available.
dimethyl-, reaction
products with silica

Persistence and Degradability

Biodegradation

Product: The methods designed to assess persistence and biodegradability are not applicable to this product, in analogy to inorganic substances.

Components:
Silicones and siloxanes, The methods designed to assess persistence and biodegradability are not
dimethyl-, reaction applicable to this product, in analogy to inorganic substances.
products with silica

BOD/COD Ratio

Product: No data available.

Components: Silicones and siloxanes, dimethyl-, reaction products with silica No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: Not to be expected.

Components: Silicones and siloxanes, dimethyl-, reaction products with silica Not to be expected.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: Not applicable

Components: Silicones and siloxanes, dimethyl-, reaction products with silica No data available.

Mobility in soil:

Product No remarkable mobility in soil is to be expected.

Components: Silicones and siloxanes, dimethyl-, reaction products with silica No remarkable mobility in soil is to be expected.

Results of PBT and vPvB assessment:

Product No data available.

Components: Silicones and siloxanes, dimethyl-, reaction products with silica No data available.

Other adverse effects:

Other hazards

Product: An Expert Judgment stated that no classification is necessary based on present knowledge.

Additional Information: No ecotoxicological data is available for this product.

13. Disposal considerations

Disposal methods: No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

Contaminated Packaging: Offer rinsed packaging material to local recycling facilities. Other countries: observe the national regulations.

14. Transport information

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16. Other information, including date of preparation or last revision

Issue Date: 02.02.2022

Version #: 1.3

Further Information: No data available.

Revision Information: Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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