

SAFETY DATA SHEET

1. Identification

Product identifier: SIPERNAT® 383 DS

Other means of identification

Recommended use: Defoamant

Recommended restrictions: Not determined.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Operations GmbH
Rellinghauser Str. 1-11
45128 Essen
Germany

Telephone : +49 6181 59 4787

E-mail : sds-hu@evonik.com

Emergency telephone number:

24-Hour Health : +49 7623 919191(24h)
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 Not applicable

Other hazards: No data available.

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)		112926-00-8	

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

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of 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:	None known.

Indication of immediate medical attention and special treatment needed

Treatment:	No hazards which require special first aid measures.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder. Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture: None known.

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. Avoid dust formation.

Accidental release measures: No data available.

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: Ensure suitable suction/aeration at the work place and with operational machinery.

Local/Total ventilation: No data available.

Safe handling advice: If necessary: Local ventilation. 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. For personal protection see section 8.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Take precautionary measures against static discharges. Keep in a dry place. Store in accordance with local/regional/national/international regulations.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Observe national threshold limit values.

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 (PPE)

General information: No data available.

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

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., Selection of protective gloves to meet the requirements of specific workplaces., The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Other: No special protective equipment required.

Respiratory Protection: 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:	Approximate

	1.700 °C/3.092 °F
Boiling Point:	Not determined.
Flammability:	Not applicable
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Flash Point:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition Temperature:	> 2.000 °C/> 3.632 °F
pH:	Approximate 8,3 Method: DIN / ISO 787 / 9 50 g/l 20 °C/68 °F Suspension
Viscosity	
Dynamic viscosity:	Not applicable
Kinematic viscosity:	No data available.
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 20 °C/68 °F
Bulk density:	No data available.
Vapor density (air=1):	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
Pyrophoric properties:	Not applicable
Dust explosion properties:	Not dust explosive
Evaporation Rate:	Not applicable
Minimum ignition energy:	Not applicable

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:	No specific hazards are known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	None known. 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 likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50, Rat, Female, Male, > 5.000 mg/kg, OECD 401, Based on available data, the classification criteria are not met.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) LD 50, Rat, Female, Male, > 5.000 mg/kg, OECD 401

Dermal

Product: LD 50, Rabbit, > 5.000 mg/kg, Based on available data, the classification criteria are not met.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) LD 50, Rabbit, > 5.000 mg/kg

Inhalation

Product: LC 50, Rat, Female, Male, 4 h, > 5,01 mg/l, OECD 436, Dust and mist,

	Based on available data, the classification criteria are not met.
Components: Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	LC 50, Rat, Female, Male, 4 h, > 5,01 mg/l, Dust and mist, OECD 436 Vapour, Not toxic after single exposure, Not applicable
Repeated dose toxicity	
Product:	NOAEL Rat, Male, Oral, 28 day, 7 days a week, >= 1.000 mg/kg, No negative effects.
Components: Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	NOAEL Rat, Male, Oral, 28 day, 7 days a week, >= 1.000 mg/kg, No negative effects.
Skin Corrosion/Irritation	
Product:	Not irritant, OECD 404, (Rabbit), Based on available data, the classification criteria are not met.
Components: Silicon dioxide, chemically prepared (CAS 112926- 00-8 resp. 7631-86-9)	Not irritating, OECD 404, Rabbit
Serious Eye Damage/Eye Irritation	
Product:	Not irritant, analogous OECD method, Rabbit, Based on available data, the classification criteria are not met.
Components: Silicon dioxide, chemically prepared (CAS 112926- 00-8 resp. 7631-86-9)	Not irritating, analogous OECD method, Rabbit
Respiratory or Skin Sensitization	
Product:	Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer. Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.
Components: Silicon dioxide, chemically prepared (CAS 112926- 00-8 resp. 7631-86-9)	Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer. Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.
Carcinogenicity	
Product:	No evidence that cancer may be caused.
Components: Silicon dioxide, chemically prepared (CAS 112926- 00-8 resp. 7631-86-9)	No evidence that cancer may be caused.
Germ Cell Mutagenicity	no evidence of mutagenic effects

In vitro

Product: gene mutation test, OECD 471: , negative
gene mutation test, OECD 490: , negative
Chromosomal aberration, OECD 473: , negative

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) gene mutation test, OECD 471: , negative
gene mutation test, OECD 490: , negative
Chromosomal aberration, OECD 473: , negative

In vivo

Product: Chromosomal aberration, OECD 475, Oral, Rat, Male, negative

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) Chromosomal aberration, OECD 475, Oral, Rat, Male, negative

Reproductive toxicity

Product: no evidence of reproductiontoxic properties

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) no evidence of reproductiontoxic properties

Specific Target Organ Toxicity - Single Exposure

Product: no evidence for hazardous properties

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) no evidence for hazardous properties

Specific Target Organ Toxicity - Repeated Exposure

Product: no evidence for hazardous properties

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) no evidence for hazardous properties

Aspiration Hazard

Product: Not applicable

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) Not applicable

Information on health hazards

Other hazards

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

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50, (Brachydanio rerio), 96 h, > 10.000 mg/l OECD 203, The reported toxic effects relate to the nominal concentration.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) LC 50, (Brachydanio rerio), 96 h, > 10.000 mg/l OECD 203, The reported toxic effects relate to the nominal concentration.

Aquatic Invertebrates

Product: EC 50, Daphnia magna, 24 h, > 1.000 mg/l OECD 202, The reported toxic effects relate to the nominal concentration.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) EC 50, Daphnia magna, 24 h, > 1.000 mg/l OECD 202, The reported toxic effects relate to the nominal concentration.

Toxicity to Aquatic Plants

Product: EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 173 mg/l (OECD 201)

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 173 mg/l (OECD 201)

Toxicity to microorganisms

Product: EC 50, local activated sludge, 3 h, > 2.500 mg/l, OECD 209

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) EC 50, local activated sludge, 3 h, > 2.500 mg/l, OECD 209

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Silicon dioxide, No data available.
chemically prepared
(CAS 112926-00-8 resp.
7631-86-9)

Toxicity to Aquatic Plants

Product: No data available.

Components:

Silicon dioxide, No data available.
chemically prepared
(CAS 112926-00-8 resp.
7631-86-9)

Toxicity to microorganisms

Product: EC 50, local activated sludge, 3 h, > 2.500 mg/l, OECD 209

Components:

Silicon dioxide, EC 50, local activated sludge, 3 h, > 2.500 mg/l, OECD 209
chemically prepared
(CAS 112926-00-8 resp.
7631-86-9)

Persistence and Degradability

Biodegradation

Product: The methods for determining biodegradability are not applicable to inorganic substances.

Components:

Silicon dioxide, chemically The methods for determining biodegradability are not applicable to
prepared (CAS 112926- inorganic substances.
00-8 resp. 7631-86-9)

BOD/COD Ratio

Product: No data available.

Components:

Silicon dioxide, chemically No data available.
prepared (CAS 112926-
00-8 resp. 7631-86-9)

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: Not to be expected.

Components:

Silicon dioxide, chemically Not to be expected.
prepared (CAS 112926-
00-8 resp. 7631-86-9)

Partition Coefficient n-octanol / water (log Kow)

Product: Not applicable

Components:

Silicon dioxide, chemically , Not applicable
prepared (CAS 112926-
00-8 resp. 7631-86-9)

Mobility in soil:

Product No remarkable mobility in soil is to be expected.

Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) No remarkable mobility in soil is to be expected.

Other adverse effects:

Other hazards

Product: The data we have at our disposal do not necessitate identification concerning environmental hazard.

13. Disposal considerations

Disposal methods: Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures.

Contaminated Packaging: Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities. Incorrect disposal or reuse of this container is illegal and can be dangerous. Observe 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

Inventory Status:

Australia Industrial Chem. Act (AIC):	On or in compliance with the inventory	
Canada DSL Inventory List:	On or in compliance with the inventory	
Canada NDSL Inventory:	Not in compliance with the inventory.	
Ontario Inventory:	Not in compliance with the inventory.	
Japan (ENCS) List:	On or in compliance with the inventory	
Japan ISHL Listing:	On or in compliance with the inventory	
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.	
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	
Mexico INSQ:	On or in compliance with the inventory	
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	
Philippines PICCS:	On or in compliance with the inventory	
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Pre-registration is requested for specific importer.
US TSCA Inventory:	On or in compliance with the inventory	Commercial Status: Active
Switzerland New Subs Notified/Registered:	On or in compliance with the inventory	
Thailand Existing Chemical Inv. List:	Not in compliance with the inventory.	
Vietnam National Chemical Inventory:	On or in compliance with the inventory	
EINECS, ELINCS or NLP:	On or in compliance with the inventory	EU-REACH compliant for Evonik Operations GmbH and its affiliates as EU manufacturer/EU importer.

16. Other information, including date of preparation or last revision
Issue Date: 27.11.2019

Version #: 1.4

Abbreviations and acronyms:

AIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency

Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information: No data available.

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

Disclaimer: This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.