

Product name: SIPERNAT® 22 S

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: SIPERNAT® 22 S

Other means of identification

CAS Number: 112926-00-8, 7631-86-9

Recommended restrictions

Recommended use: Anticaking agent
Flow-promoting agent.
Carrier
Thickening agent
Cosmetics
Defoamant

Restrictions on use: Not determined.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
2 Turner Place
Piscataway, NJ 08854
USA

Telephone : +1 732 981 5000

E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24 Hour Emergency Telephone : +1 800 424 9300 (CHEMTREC - US & CANADA)
800 681 9531 (CHEMTREC MEXICO)
+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazards for the product as supplied

Not classified

Hazard(s) not otherwise classified (HNOC): None.

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary

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Statements

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS No./Unique ID	Content in percent (%)*	Trade Secret
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)		112926-00-8*	80 - 100%	TSC

* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

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

Composition Comments: The components are not hazardous or are below required disclosure limits.

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:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention. No information available.
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 hazards which require special first aid measures.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

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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:	Containers can build up pressure if exposed to heat (fire). Cool with water spray.
Special protective equipment for firefighters:	As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

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:	Vacuum up immediately. A vacuum cleaner with a high-efficiency filtration system is recommended. To avoid raising dust do not use brooms or compressed air. Collect and place in correctly labelled containers. For disposal see Section 13.
Environmental Precautions:	Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, rivers, groundwater or soil. Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

7. Handling and storage

Handling

Technical measures:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	Avoid dust formation. Take precautionary measures against static discharges. Use with adequate ventilation.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Take precautionary measures against static discharges. Keep containers tightly sealed and store in a dry, cool place. Store in accordance with local/regional/national/international regulations.
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Safe packaging materials:

No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Components	Type	Form of exposure	Exposure Limit Values		Source
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	PEL			6 mg/m ³	
	PEL			20 millions of particles per cubic foot of air	

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

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection:

Safety glasses with side shields In case of dusts: Wear tight-fitting eye protection (e.g. safety goggles)

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., 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.

Skin and Body Protection:

Safety showers and eye showers should be easily accessible. In order to determine further specifications applicable to the personal protection equipment, a hazard assessment according to the OSHA standards (29 CFR 1910.132) for personal protection equipment (PPE) is recommended before the product is used.

Respiratory Protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

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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
3,092 °F/ 1,700 °C**Boiling Point:** No data available.**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 (solid)**Auto-ignition temperature:** Not applicable**Decomposition Temperature:** > 3,632 °F/> 2,000 °C**pH:** Approximate
6.5 (68 °F/20 °C)
Method: DIN / ISO 787 / 9
Concentration: 50 g/l
Suspension**Viscosity****Dynamic viscosity:** Not applicable (solid)**Kinematic viscosity:** Not applicable (solid)**Flow Time:** No data available.**Solubility(ies)****Solubility in Water:** > 1 mg/l**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/cm³ (68 °F/20 °C)**Bulk density:** No data available.**Vapor density (air=1):** No data available.**Particle characteristics:** No data available.

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Other information

Explosive properties:	Not to be expected in view of the structure
Oxidizing properties:	Not to be expected in view of the structure
Self-ignition:	Not applicable
Peroxides:	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.

11. Toxicological information

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

Symptoms related to the physical, chemical and toxicological characteristics

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, Female, Male, > 5,000 mg/kg, OECD 401, Based on
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	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:	

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Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) No evidence that cancer may be caused.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:

No carcinogens present or none present in regulated quantities

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**Effects on fertility**

Product: Remarks: no evidence of reproductiontoxic properties

Components:

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

Effects on fetal development

Not classified based on available data.

Reproductive toxicity - Assessment

Product: Reproductive toxicity: no evidence of reproductiontoxic properties

Components:

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

Specific Target Organ Toxicity - Single Exposure

Product: no evidence for hazardous properties

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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: No data available.

12. Ecological information
Ecotoxicity:
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

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 EC 50, Daphnia magna, 24 h, > 1,000 mg/l/OECD 202, The reported toxic

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prepared (CAS 112926-00-8 resp. 7631-86-9) effects relate to the nominal concentration.

Chronic hazards to the aquatic environment:**Fish**

No data available.

Aquatic Invertebrates

No data available.

Persistence and Degradability**Biodegradation**

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

Components:

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

BOD/COD Ratio

No data available.

Bioaccumulative potential**Bioconcentration Factor (BCF)**

Product: Not to be expected.

Components:

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

Partition Coefficient n-octanol / water (log Kow)

Product: Not applicable

Components:

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

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.

Results of PBT and vPvB assessment:

No data available.

Other adverse effects:**Additional ecological information**

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

13. Disposal considerations

Product name: SIPERNAT® 22 S

Disposal methods:	Waste must be disposed of in accordance with federal, state, provincial and local regulations. Waste must be disposed of in accordance with federal, state, provincial and local regulations.
Contaminated Packaging:	Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

14. Transport information**Domestic regulation****49 CFR**

Not regulated as a dangerous good

Remarks : Not dangerous according to transport regulations.

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**US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721 and 725, Subpt E)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Not classified

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US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US. EPCRA (SARA Title III) Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US State Regulations
US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

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
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	On or 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
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
NFPA Hazard ID


Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Product name: SIPERNAT® 22 S

Version #: 2.0
Revision Date: 09/02/2025
Date of first report version: 03/25/2019

Abbreviations and acronyms:

: Source: 54 FR 2701
/ PEL: Permissible exposure limit:

AIIC - 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:

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