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SAFETY DATA SHEET

1. Identification

Product identifier: SIPERNAT® 320 DS

Other means of identification

Recommended use: Antiblocking agents

Anticaking agent Defoamant

Flow-promoting agent.

Fillers.

Thickening agent

Paper

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

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



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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

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.

5. Fire-fighting measures



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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:

No data available.

6. Accidental release measures

Personal precautions, protective

equipment and emergency

procedures:

Use personal protective equipment.

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

operationalmachinery.Local ventilation if necessary. see

also section 7.

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.



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Contact avoidance measures: No data available.

Storage

Safe storage conditions: Take precautionary measures against static

discharges. Keep in a dry place.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Observe national threshold limit values.

Biological Limit Values

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

Appropriate Engineering Controls Ensure suitable suction/aeration at the work place and with

operationalmachinery.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

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.

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



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Color: White
Odor: Odorless

Odor Threshold: Not applicable

Melting Point: Approximate
1.700 °C/3.092 °F

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: > 2.000 °C/> 3.632 °F

pH: Approximate

6,3

Method: DIN / ISO 787 / 9

50 g/l 20 °C/68 °F Suspension

Viscosity

Dynamic viscosity:

Kinematic viscosity:

Not applicable (solid)

Not applicable (solid)

No data available.

Solubility(ies)

Solubility in Water:
Solubility (other):
No data available.

Partition coefficient (n-octanol/water):
Not applicable
Not applicable
Relative density:
No data available.

Approximate

2 g/cm3

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
Peroxides: Not applicable



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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.

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, Female, Male, > 5.000 mg/kg, OECD 401, Based on

available data, the classification criteria are not met.

Components:

Silicon dioxide, LD 50, Rat, Female, Male, > 5.000 mg/kg, OECD 401

chemically prepared (CAS 112926-00-8 resp.

7631-86-9)

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. LD 50, Rabbit, > 5.000 mg/kg

7631-86-9)



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

chemically prepared Vapour, Not toxic after single exposure, Not applicable (CAS 112926-00-8 resp.

7631-86-9)

Repeated dose toxicity

Product: NOAEL Rat, Male, Oral, 28 day, 7 days a week, >= 1.000 mg/kg, No

negative effects.

Components:

Silicon dioxide, NOAEL Rat, Male, Oral, 28 day, 7 days a week, >= 1.000 mg/kg, No

chemically prepared negative effects. (CAS 112926-00-8 resp.

7631-86-9)

Skin Corrosion/Irritation

Product: OECD 404, (Rabbit), Not irritating, Based on available data, the

classification criteria are not met.

Components:

Silicon dioxide, chemically Not irritating, OECD 404, Rabbit

prepared (CAS 112926-00-8 resp. 7631-86-9)

Serious Eye Damage/Eye Irritation

Product: analogous OECD method, Rabbit, Not irritating, Based on available data,

the classification criteria are not met.

Components:

Silicon dioxide, chemically Not irritating, analogous OECD method, Rabbit

prepared (CAS 112926-00-8 resp. 7631-86-9)

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 Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin

prepared (CAS 112926- sensitizer.

00-8 resp. 7631-86-9) Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

Carcinogenicity

Product: No evidence that cancer may be caused.

Components:

Silicon dioxide, chemically No evidence that cancer may be caused.

prepared (CAS 112926-00-8 resp. 7631-86-9)

Germ Cell Mutagenicity

no evidence of mutagenic effects



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In vitro

Product: gene mutation test, OECD 471: , negative gene mutation test, OECD 490: , negative

Chromosomal aberration, OECD 473:, negative

Components:

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

In vivo

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

Components:

Silicon dioxide, chemically Chromosomal aberration, OECD 475, Oral, Rat, Male, negative prepared (CAS 112926-

00-8 resp. 7631-86-9)

Reproductive toxicity Product:no evidence of reproductiontoxic properties

Components:

Silicon dioxide, chemically no evidence of reproductiontoxic properties

prepared (CAS 112926-00-8 resp. 7631-86-9)

Specific Target Organ Toxicity - Single Exposure

Product: no evidence for hazardous properties

Components:

Silicon dioxide, chemically no evidence for hazardous properties

prepared (CAS 112926-00-8 resp. 7631-86-9)

Specific Target Organ Toxicity - Repeated Exposure

Product: no evidence for hazardous properties

Components:

Silicon dioxide, chemically no evidence for hazardous properties

prepared (CAS 112926-00-8 resp. 7631-86-9)

Aspiration Hazard

Product: Not applicable

Components:

Silicon dioxide, chemically Not applicable

prepared (CAS 112926-00-8 resp. 7631-86-9)

Information on health hazards

Other hazards

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



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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. LC 50, (Brachydanio rerio), 96 h, > 10.000 mg/l OECD 203, The reported

chemically prepared toxic effects relate to the nominal concentration. (CAS 112926-00-8 resp.

7631-86-9)

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, EC 50, Daphnia magna, 24 h, > 1.000 mg/l OECD 202, The reported

chemically prepared toxic effects relate to the nominal concentration. (CAS 112926-00-8 resp.

7631-86-9)

Toxicity to Aquatic Plants

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

(OECD 201)

Components:

Silicon dioxide, EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 173 mg/l

(OECD 201) chemically prepared

7631-86-9)

Toxicity to microorganisms

(CAS 112926-00-8 resp.

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)

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Silicon dioxide, No data available.

chemically prepared (CAS 112926-00-8 resp.

7631-86-9)

Aquatic Invertebrates

Product: No data available.



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Components:

Silicon dioxide, 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

No data available.

Components:

Silicon dioxide, 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 prepared (CAS 112926-00-8 resp. 7631-86-9)

Silicon dioxide, chemically The methods for determining biodegradability are not applicable to

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

2926- inorganic substances.

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)



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Mobility in soil:

Product No remarkable mobility in soil is to be expected.

Components:

Silicon dioxide, chemically No remarkable mobility in soil is to be expected.

prepared (CAS 112926-00-8 resp. 7631-86-9)

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: 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 Not applicable

Stockholm convention

Not applicable



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Rotterdam convention

Not applicable Not applicable

Kyoto protocol

Not applicable Not applicable

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

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Version #: 1.8

Abbreviations and acronyms:

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: Changes since the last version are highlighted in the margin. This version

replaces all previous versions.



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