

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** SIPERNAT® 830

### Other means of identification

**Recommended use:** Coating agent

**Recommended restrictions:** Not determined.

### Manufacturer/Importer/Distributor Information

**Company Name** : Evonik Specialty Silica India Pvt. Ltd  
754, GIDC Estate, Jhagadia Bharuch 393110  
Gujarat, India

**Telephone** : +91 26 45226081

**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

## Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
Silicic acid, aluminum sodium salt		1344-00-9	

<sup>\*</sup> 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

<b>Inhalation:</b>	In case product dust is released: Possible discomfort: cough, sneezing Move to fresh air.
<b>Skin Contact:</b>	Wash off with plenty of water and soap.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	Clean mouth with water and drink afterwards plenty of water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.
<b>Personal Protection for First-aid Responders:</b>	No data available.

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

<b>Symptoms:</b>	None known.
<b>Hazards:</b>	No data available.

### Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	No data available.
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## 5. Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Water spray, foam, CO<sub>2</sub>, 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.

<b>6. Accidental release measures</b>
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**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.

<b>7. Handling and storage</b>
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**Handling**

**Technical measures:**

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

**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.

**Contact avoidance measures:**

No data available.

**Storage**

**Safe storage conditions:**

Take precautionary measures against static discharges. Keep in a dry, cool 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 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

#### Hand Protection:

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

#### Other:

No special measures 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

##### Color:

White

##### Odor:

Odorless

##### Odor Threshold:

Not applicable

##### Melting Point:

Approximate  
1.700 °C/3.092 °F

##### Boiling Point:

No data available.

<b>Flammability:</b>	Not applicable
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Flash Point:</b>	Not applicable (solid)
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	> 1.700 °C/> 3.092 °F
<b>pH:</b>	6 - 8 Method: DIN / ISO 787 / 9 50 g/l 20 °C/68 °F Suspension
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	Not applicable (solid)
<b>Kinematic viscosity:</b>	Not applicable (solid)
<b>Flow Time:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	hardly soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable
<b>Vapor pressure:</b>	Not applicable
<b>Relative density:</b>	No data available.
<b>Density:</b>	Approximate 2,1 g/cm <sup>3</sup> 20 °C/68 °F Method: DIN / ISO 787 / 10
<b>Bulk density:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Other information</b>	
<b>Explosive properties:</b>	Not to be expected in view of the structure
<b>Oxidizing properties:</b>	Not to be expected in view of the structure
<b>Pyrophoric properties:</b>	Not applicable
<b>Peroxides:</b>	Not applicable
<b>Dust explosion properties:</b>	Not dust explosive
<b>Evaporation Rate:</b>	Not applicable

## 10. Stability and reactivity

<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
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<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	No hazardous reactions are known if properly handled and stored.
<b>Conditions to avoid:</b>	No dangerous reaction known under conditions of normal use.
<b>Incompatible Materials:</b>	None known.
<b>Hazardous Decomposition Products:</b>	None known. Stable under normal conditions. Product will not undergo hazardous polymerization.

## 11. Toxicological information

**General information:** Toxic effects from handling this product are unknown as yet.

### 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:**  
Silicic acid, aluminum sodium salt LD 50, Rat, Female, Male, > 5.000 mg/kg, OECD 401

#### Dermal

**Product:** LD 50, Rabbit, > 5.000 mg/kg, OECD 402, Based on available data, the classification criteria are not met.

**Components:**  
Silicic acid, aluminum sodium salt LD 50, Rabbit, > 5.000 mg/kg, OECD 402

#### Inhalation

**Product:** LC 50, Rat, Female, Male, 4 h, > 5,01 mg/l, OECD 436, No deaths observed., Dust and mist, (analogy)  
Not toxic after single exposure, Not applicable, Vapour

**Components:**  
Silicic acid, aluminum sodium salt LC 50, Rat, Female, Male, 4 h, > 5,01 mg/l, OECD 436, No deaths observed., Dust and mist, (analogy)  
Not toxic after single exposure, Not applicable, Vapour

#### Repeated dose toxicity

**Product:** NOAEL Rat, Female, Male, Oral, 103 Weeks, Approximate, 2.000 mg/kg, (analogy)

	NOAEC, Rat, Female, Male, Inhalation - dust and mist, 90 day, 1,3 mg/m <sup>3</sup> , (analogy)
<b>Components:</b>	
Silicic acid, aluminum sodium salt	NOAEL Rat, Female, Male, Oral, 103 Weeks, Approximate, 2.000 mg/kg, (analogy) NOAEC, Rat, Female, Male, Inhalation - dust and mist, 90 day, 1,3 mg/m <sup>3</sup> , (analogy)
<b>Skin Corrosion/Irritation</b>	
<b>Product:</b>	OECD 404, (Rabbit), Not irritating
<b>Components:</b>	
Silicic acid, aluminum sodium salt	Not irritating, OECD 404, Rabbit
<b>Serious Eye Damage/Eye Irritation</b>	
<b>Product:</b>	Rabbit, Not irritating
<b>Components:</b>	
Silicic acid, aluminum sodium salt	Not irritating, Rabbit
<b>Respiratory or Skin Sensitization</b>	
<b>Product:</b>	No data available.
<b>Components:</b>	
Silicic acid, aluminum sodium salt	No data available.
<b>Carcinogenicity</b>	
<b>Product:</b>	No evidence that cancer may be caused.
<b>Components:</b>	
Silicic acid, aluminum sodium salt	No evidence that cancer may be caused.
<b>Germ Cell Mutagenicity</b>	
no evidence of mutagenic effects	
<b>In vitro</b>	
<b>Product:</b>	gene mutation test, OECD 471: , negative Chromosomal aberration, OECD 473: , negative gene mutation test, OECD 476: , negative, (analogy)
<b>Components:</b>	
Silicic acid, aluminum sodium salt	gene mutation test, OECD 471: , negative Chromosomal aberration, OECD 473: , negative gene mutation test, OECD 476: , negative, (analogy)
<b>In vivo</b>	
<b>Product:</b>	Chromosomal aberration, OECD 475, Oral, Rat, Male, negative
<b>Components:</b>	
Silicic acid, aluminum sodium salt	Chromosomal aberration, OECD 475, Oral, Rat, Male, negative
<b>Reproductive toxicity</b>	
<b>Product:</b>	no evidence of reproductiontoxic properties Oral
<b>Components:</b>	

Silicic acid, aluminum sodium salt      no evidence of reproductiontoxic properties Oral

### Specific Target Organ Toxicity - Single Exposure

**Product:**      no evidence for hazardous properties

**Components:**

Silicic acid, aluminum sodium salt      no evidence for hazardous properties

### Specific Target Organ Toxicity - Repeated Exposure

**Product:**      no evidence for hazardous properties

**Components:**

Silicic acid, aluminum sodium salt      no evidence for hazardous properties

### Aspiration Hazard

**Product:**      Not applicable

**Components:**

Silicic acid, aluminum sodium salt      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, Danio rerio, 96 h, > 10.000 mg/l OECD 203  
                          LC 0, Danio rerio, 96 h, 10.000 mg/l OECD 203

**Components:**

Silicic acid, aluminum sodium salt      LC 50, Danio rerio, 96 h, > 10.000 mg/l OECD 203  
                          LC 0, Danio rerio, 96 h, 10.000 mg/l OECD 203

#### Aquatic Invertebrates

**Product:**      EC 50, Daphnia magna, 48 h, 10.000 mg/l OECD 202, (analogy)

**Components:**

Silicic acid, aluminum sodium salt      EC 50, Daphnia magna, 48 h, 10.000 mg/l OECD 202, (analogy)

#### Toxicity to Aquatic Plants

**Product:**      No data available.

**Components:**

Silicic acid, aluminum sodium salt      No data available.

#### Toxicity to microorganisms

**Product:**      No data available.



**Components:**

Silicic acid, aluminum sodium salt      No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:**      No data available.

**Components:**

Silicic acid, aluminum sodium salt      No data available.

**Aquatic Invertebrates**

**Product:**      No data available.

**Components:**

Silicic acid, aluminum sodium salt      No data available.

**Toxicity to Aquatic Plants**

**Product:**      No data available.

**Components:**

Silicic acid, aluminum sodium salt      No data available.

**Toxicity to microorganisms**

**Product:**      No data available.

**Components:**

Silicic acid, aluminum sodium salt      No data available.

**Persistence and Degradability**

**Biodegradation**

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

**Components:**

Silicic acid, aluminum sodium salt      No data available.

**BOD/COD Ratio**

**Product:**      No data available.

**Components:**

Silicic acid, aluminum sodium salt      No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:**      Not to be expected.

**Components:**

Silicic acid, aluminum sodium salt      No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Not applicable

**Components:**

Silicic acid, aluminum sodium salt, No data available.

**Mobility in soil:**

**Product** No remarkable mobility in soil is to be expected.

**Components:**

Silicic acid, aluminum sodium salt No data available.

**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:** No data available.

**Contaminated Packaging:** No data available.

**14. Transport information**

**International Regulations**

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

Remarks : Not hazardous freight in air traffic (ICAO-TI / IATA-DGR).

**IMDG-Code**

Not regulated as a dangerous good

Remarks : Not classified as hazardous sea cargo (IMDG code).

**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:** 19.11.2020**Version #:** 1.2**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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