

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** ULTRASIL® VN 3 GR

**Chemical name:**

Silicon dioxide, chemically prepared

**Other means of identification**

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

**Recommended restrictions**

**Recommended use:** Rubber - producing and processing industry

**Restrictions on use:** Not known.

**Manufacturer/Importer/Distributor Information**

Company Name : Evonik Corporation  
299 Jefferson Road  
Parsippany, NJ 07054  
USA

Telephone : +1 973 929 8000

Fax : +1 973 929 8040

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

**Emergency telephone number:**

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : +1 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

**Hazard Classification**

Not classified

**Label Elements**

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** Not applicable

**Precautionary Statements**

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

### 3. Composition/information on ingredients

**Chemical name:**

Silicon dioxide, chemically prepared

**Substances**

Chemical Identity	CAS number	Content in percent (%) <sup>*</sup>
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	112926-00-8	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

**Description of necessary first-aid measures**

- Inhalation:** In case product dust is released: Possible discomfort: cough, sneezing Move victims into 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.
- 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:** As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

**Most important symptoms/effects, 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.

### 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.

**Specific hazards arising from the chemical:** None known.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** 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.

**Accidental release measures:** Avoid dust formation.

**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:** Do not allow entrance in sewage water, soil, stretches of water, drainage systems, surface water. Local authorities should be advised if significant spillages cannot be contained. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

**7. Handling and storage**

**Handling**

**Technical measures (e.g. Local and general ventilation):** No data available.

**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. Wear personal protective equipment.

**Contact avoidance measures:** No data available.

**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.

**Storage**

**Safe storage conditions:** When repairs of the production system are to be made (e.g. welding work), the section to be repaired must be essentially free of product. Take measures to prevent the build up of electrostatic charge. Keep containers tightly closed in a dry, cool place.

**Safe packaging materials:** No data available.

**8. Exposure controls/personal protection**

**Control Parameters**
**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	PEL	6 mg/m <sup>3</sup>	Source: 54 FR 2701
	PEL	20 millions of particles per cubic foot of air	Source: 54 FR 2701

**Appropriate Engineering Controls** No data available.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection:** Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

**Skin Protection**
**Hand Protection:**

Additional Information: Wear protective gloves made of the following materials: material, rubber, leather. Additional Information: The material thickness and rupture time data do not apply to non-solute solids / dusts. Additional Information: Use impermeable gloves., The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

**Skin and Body Protection:**

A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

**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.

**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**
**Appearance**

<b>Physical state:</b>	solid
<b>Form:</b>	granular
<b>Color:</b>	White
<b>Odor:</b>	odourless
<b>Odor Threshold:</b>	Not applicable
<b>pH:</b>	approx. 6.3 (50 g/l, 20 °C) Suspension
<b>Melting Point:</b>	approx. 1,700 °C
<b>Boiling Point:</b>	not determined
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Flammability (solid, gas):</b>	Not applicable

<b>Explosive limit - upper (%):</b>	Not applicable
<b>Explosive limit - lower (%):</b>	Not applicable
<b>Vapor pressure:</b>	Not applicable
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	approx. 2 g/cm <sup>3</sup> (20 °C)
<b>Relative density:</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>Self Ignition Temperature:</b>	Not capable of spontaneous combustion or heating.
<b>Decomposition Temperature:</b>	> 2,000 °C
<b>Kinematic viscosity:</b>	Not applicable solid
<b>Dynamic viscosity:</b>	Not applicable solid
<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>Minimum ignition energy:</b>	not determined
<b>Minimum ignition temperature:</b>	not determined

#### 10. Stability and reactivity

<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
<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 specific hazards are known.
<b>Incompatible Materials:</b>	None known.
<b>Hazardous Decomposition Products:</b>	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

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

##### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	No data available.
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**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

##### Oral

**Product:** LD 50 (Rat): > 5,000 mg/kg comparable product

##### Dermal

**Product:** LD 50 (Rabbit): > 5,000 mg/kg comparable product

##### Inhalation

**Product:**

##### Components:

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) LC0 (Rat): 0.69 mg/l  
Vapour The substance or mixture has no acute inhalation toxicity, Dusts, mists and fumes

#### Repeated dose toxicity

**Product:** No data available.

#### Skin Corrosion/Irritation

**Product:** not irritating analogous OECD method (Rabbit): not irritating comparable product Based on available data, the classification criteria are not met.

#### Serious Eye Damage/Eye Irritation

**Product:** not irritating Rabbit: not irritating comparable product Based on available data, the classification criteria are not met.

#### Respiratory or Skin Sensitization

**Product:** Not known.

#### Carcinogenicity

**Product:** Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA. No evidence that cancer may be caused.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

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

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

**Germ Cell Mutagenicity**

**In vitro**  
**Product:** No data available.

**In vivo**  
**Product:** No data available.

**Reproductive toxicity**

**Product:** no evidence of reproductiontoxic properties

**Specific Target Organ Toxicity - Single Exposure**

**Product:** no evidence for hazardous properties

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** no evidence for hazardous properties

**Aspiration Hazard**

**Product:** Not classified

**Other effects:** No data available.

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

**Product:** LC 50 ((Brachydanio rerio), 96 h): > 10,000 mg/l The reported toxic effects relate to the nominal concentration.

**Aquatic Invertebrates**

**Product:** EC 50 (Daphnia magna, 24 h): > 1,000 mg/l The reported toxic effects relate to the nominal concentration.

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

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability****Biodegradation**

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

**BOD/COD Ratio Product:** No data available.

**Bioaccumulative potential  
Bioconcentration Factor (BCF)  
Product:** Not to be expected.

**Partition Coefficient n-octanol / water (log Kow)  
Product:** Log Kow: Not applicable

**Mobility in soil:** No remarkable mobility in soil is to be expected.

**Other adverse effects:** An Expert Judgment stated that no classification is necessary based on present knowledge.

### 13. Disposal considerations

**Disposal methods:** Waste must be disposed of in accordance with federal, state, provincial and local regulations. Since empty containers retain product residue, follow MSDS and label warnings even after container is emptied.

**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.

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

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

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

Not classified

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances****SARA 311/312 Hazardous Chemical****Chemical Identity****Threshold Planning Quantity**

None present or none present in regulated quantities.

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

**US State Regulations****US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act****Chemical Identity**

Silicon dioxide, chemically prepared

**US. Massachusetts RTK - Substance List****Chemical Identity**

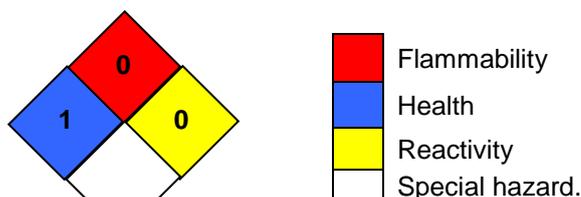
Silicon dioxide, chemically prepared

**US. Pennsylvania RTK - Hazardous Substances****Chemical Identity**

Silicon dioxide, chemically prepared

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**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

**Issue Date:** 07/09/2019**Version #:** 1.2**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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