

# SAFETY DATA SHEET

## SILICA DIMETHYL SILYATE

### 1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Silica Dimethyl Silylate

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,  
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

### 2. HAZARD 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

#### Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
Silane, dichlorodimethyl-, reaction products with silica		68611-44-9	<=100%

<sup>\*</sup> 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:** No special hints.

**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 full-force water jet in order to avoid dispersal and spread of the fire.

###### **Special hazards arising from the substance or mixture:**

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

**Special protective equipment and precautions for fire-fighters**

**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:**

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:**

Sweep up or vacuum up spillage and collect in suitable container for disposal.

**Environmental Precautions:**

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

**7. HANDLING AND STORAGE**

**Technical measures:**

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

**Local/Total ventilation:**

No data available.

**Safe handling advice:**

Use with adequate 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 the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection.

**Contact avoidance measures:**

No data available.

**Storage**

**Safe storage conditions:**

Take precautionary measures against static discharges. Keep in a dry place. Keep containers tightly sealed and store in a dry, cool 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**

None of the components have assigned exposure limits.

**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.

**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 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. Additional Information: Use impermeable 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.

**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	Not applicable Decomposition
Boiling Point	Not applicable Decomposition
Flammability	No data available.
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	> 1112 °F/> 600 °C Method: VDI 2263
Decomposition Temperature	> 572 °F/> 300 °C
pH	3.6 - 5.5 at 68 °F/20 °C Concentration: 40 g/l 1: 1 in 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 2.2 g/cm <sup>3</sup> at 68 °F/20 °C
Bulk density	No data available.
Vapor density (air=1)	No data available.
Other information	
Explosive properties	Not applicable
Self-ignition	The substance or mixture is not classified as self heating.
Peroxides	Not applicable
Dust explosion properties	Not dust explosive
Evaporation Rate	Not applicable
Minimum ignition energy	> 10 kJ

## 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:

Hydrophobic properties disappear at temperatures > 300°C

### Incompatible Materials:

None known.

**Hazardous Decomposition Products:**

Carbon Monoxide. Carbon Dioxide. organic products of decomposition 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 toxicological effects**

**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, (analogy)

**Dermal**

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

**Inhalation**

**Product:** LC 50, Rat, Female, Male, 4 h, > 5.01 mg/l, OECD 436, Dust and mist, (analogy)

**Repeated dose toxicity**

**Product:** NOAEL Rat, Male, Oral, 28 day, 7 days a week, >= 1,000 mg/kg, No negative effects. (analogy)

**Skin Corrosion/Irritation**

**Product:** Not irritant, OECD 404, (Rabbit), (analogy)

**Serious Eye Damage/Eye Irritation**

**Product:** Not irritant, analogous OECD method, Rabbit, (analogy)

**Respiratory or Skin Sensitization**

**Product:** Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer., (analogy)

Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer., (analogy)

**Carcinogenicity**

**Product:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA. 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

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

No carcinogens present or none present in regulated quantities

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

gene mutation test, OECD 490: , negative, (analogy)

Chromosomal aberration, OECD 473: , negative, (analogy)

**In vivo**

**Product:** Chromosomal aberration, OECD 475, Oral, Rat, Male, negative, (analogy)

**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 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. (analogy)

**Aquatic Invertebrates**

**Product:** EC 50, Daphnia magna, 24 h, > 1,000 mg/l/OECD 202, The reported toxic effects relate to the nominal concentration. (analogy)

**Toxicity to Aquatic Plants**

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

**Toxicity to microorganisms**

**Product:** EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to microorganisms**

**Product:** EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

**Persistence and Degradability**

**Biodegradation**

**Product:** The methods designed to assess persistence and biodegradability are not applicable to this product, in analogy 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:**

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

**Results of PBT and vPvB assessment:**

**Product** 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:**

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, 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 1910.1001-1050), 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

**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)**

Note: The information contained within this document was prepared by technical personnel and is believed to be true and accurate to the best of our knowledge. However, no warranty, express or implied, is provided regarding merchantability, fitness for a particular purpose, performance, safety, suitability, stability, or other aspects of the product. This information is not comprehensive and does not cover all potential conditions of use, handling, storage, disposal, or other factors that may involve legal, environmental, safety, or performance considerations. Natural Bulk Supplies accepts no liability for the use of or reliance upon this information. Our technical personnel are available to address inquiries, but the customer bears ultimate responsibility for the safe handling and use of the product. No suggestions for use are made that would encourage the infringement of existing patents or the violation of any Federal, State, local, or foreign laws.

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:

Taiwan Chemical Substance Inventory	On or in compliance with the inventory Pre-registration is requested for specific importer.
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	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
Japan Pharmacopoeia Listing	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI)	On or in compliance with the inventory
Mexico INSQ	Not 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
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

**All statements, technical information and recommendations contained herein are based on tests and data which Natural Bulk Supplies believes to be currently reliable, but this accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this company or others covering any process, composition of matter or use. Since we shall have no control of the use of the product described here in, we assume no Liability for loss or damage incurred from the proper or improper use of such product.**

Note: The information contained within this document was prepared by technical personnel and is believed to be true and accurate to the best of our knowledge. However, no warranty, express or implied, is provided regarding merchantability, fitness for a particular purpose, performance, safety, suitability, stability, or other aspects of the product. This information is not comprehensive and does not cover all potential conditions of use, handling, storage, disposal, or other factors that may involve legal, environmental, safety, or performance considerations. Natural Bulk Supplies accepts no liability for the use of or reliance upon this information. Our technical personnel are available to address inquiries, but the customer bears ultimate responsibility for the safe handling and use of the product. No suggestions for use are made that would encourage the infringement of existing patents or the violation of any Federal, State, local, or foreign laws.