

Revision Date: 14.05.2018

# **SAFETY DATA SHEET**

# 1. Identification

Product identifier: Silicic Acid, n-Hydrate

Other means of identification

Product No.: 0324

Recommended use and restriction on use

Recommended use: Not determined. Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

Avantor Performance Materials, LLC.

3477 Corporate Parkway Center Valley, PA 18034

Telephone:

Customer Service: 855-282-6867

Fax: 610-573-2610

Contact Person: Environmental Health & Safety E-mail: info@avantormaterials.com

**Emergency telephone number:** 

CHEMTREC: 1-800-424-9300 within US and Canada

# 2. Hazard(s) identification

# **Hazard Classification**

Not classified

### **Unknown toxicity - Health**

Acute toxicity, dermal 100 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 100 %

or mist

### **Unknown toxicity - Environment**

Acute hazards to the aquatic 100 %

environment

Chronic hazards to the aquatic 100 %

environment

#### **Label Elements**

Hazard Symbol: No symbol

Signal Word: No signal word.

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Hazard Statement: Precautionary Statements Not applicable Not applicable

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Substances**

Chemical name	Common name and synonyms	CAS number	Content in percent (%)*
SILICA GEL	_	63231-67-4	98 - 100%

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

# 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

**Ingestion:** Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation

persists after washing. Wash contaminated clothing before reuse.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

Most important symptoms/effects, acute and delayed

**Symptoms:** May cause irritation to skin, eyes, and respiratory tract.

Hazards: None known.

Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed.

### 5. Fire-fighting measures

**General Fire Hazards:** In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

None known.



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Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unauthorized personnel away. Use personal protective equipment.

See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning

up:

Sweep up and place in a clearly labeled container for chemical waste.

Clean surface thoroughly to remove residual contamination.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

### 7. Handling and storage

**Precautions for safe handling:** Use personal protective equipment as required. Avoid contact with eyes,

skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.

Conditions for safe storage,

including any incompatibilities:

Keep containers tightly closed. Store in cool, dry place. Store in a well-

ventilated place.

#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
SILICA GEL - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

Appropriate Engineering Controls

No data available.

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

**General information:** Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level.



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**Eye/face protection:** Use tight fitting goggles if dust is generated.

**Skin Protection** 

**Hand Protection:** Wear protective gloves.

**Other:** Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Provide eyewash station and safety shower.

# 9. Physical and chemical properties

**Appearance** 

Physical state: Solid
Form: Powder.
Color: White
Odor: Odorless

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point:  $1.610 \, ^{\circ}\text{C}$  Initial boiling point and boiling range:  $2.230 \, ^{\circ}\text{C}$ 

Flash Point:

Evaporation rate:

No data available.

No data available.

Flammability (solid, gas):

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. No data available. Explosive limit - upper (%): **Explosive limit - lower (%):** No data available. Vapor pressure: No data available. No data available. Vapor density: Density: 2,1 g/ml (20 °C) Relative density: 2,1 (20 °C)

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
Auto-ignition temperature:
No data available.
Decomposition temperature:
No data available.
Viscosity:
No data available.

### 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.



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**Conditions to avoid:** Excessive heat. Moisture. Contact with incompatible materials. Excessive

heat. Moisture. Contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents. Strong bases. Hydrogen fluoride. Halogenated

materials. Magnesium. Strong oxidizing agents. Strong bases. Hydrogen

fluoride. Halogenated materials. Magnesium.

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition may produce oxides of carbon and silicon. Thermal

decomposition may produce oxides of carbon and silicon.

# 11. Toxicological information

# Information on likely routes of exposure

**Inhalation:** May cause irritation to the respiratory system.

**Skin Contact:** May cause irritation.

**Eye contact:** May cause temporary eye irritation.

**Ingestion:** May cause irritation of the gastrointestinal tract.

### Information on toxicological effects

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

Oral

**Product:** LD 50 (Rat): 22.500 mg/kg

**Dermal** 

**Product:** No data available.

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** May cause skin irritation.

Serious Eye Damage/Eye Irritation

**Product:** May irritate eyes.

Respiratory or Skin Sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

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

No carcinogenic components identified

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

No carcinogenic components identified

### **ACGIH Carcinogen List:**



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No carcinogenic components identified

### **Germ Cell Mutagenicity**

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive toxicity

**Product:** No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product:
No data available.

**Aspiration Hazard** 

Product: Not classified

Other effects: None known.

# 12. Ecological information

### **Ecotoxicity:**

## Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

# 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:** There are no data on the degradability of this product.

**BOD/COD** Ratio

**Product:** No data available.

#### Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available on bioaccumulation.



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

**Product:** No data available.

**Mobility in soil:** No data available.

Other adverse effects: The product components are not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills

can have a harmful or damaging effect on the environment.

# 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

**Contaminated Packaging:** Since emptied containers retain product residue, follow label warnings even

after container is emptied.

# 14. Transport information

#### **TDG**

Not regulated.

#### **IMDG**

Not regulated.

#### **IATA**

Not regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

# 15. Regulatory information

#### **Canada Federal Regulations**

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

# Export Control List (CEPA 1999, Schedule 3)

Not Regulated

# **National Pollutant Release Inventory (NPRI)**

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5 Not Regulated

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# Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI Not Regulated

#### **Greenhouse Gases**

Not Regulated

# **Controlled Drugs and Substances Act**

CA CDSI Not Regulated

CA CDSII Not Regulated



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CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

### **Precursor Control Regulations**

Not Regulated

## International regulations

### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### Rotterdam convention

Not applicable

#### **Kyoto protocol**

Not applicable

### **Inventory Status:**

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory Not in compliance with the inventory. EINECS, ELINCS or NLP: Not in compliance with the inventory. Japan (ENCS) List: China Inv. Existing Chemical Substances: Not in compliance with the inventory. Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory

US TSCA Inventory:

New Zealand Inventory of Chemicals:

On or in compliance with the inventory
On or in compliance with the inventory

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

Not in compliance with the inventory.

Not in compliance with the inventory.

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

**Revision Date:** 14.05.2018

Version #: 1.1

Further Information: No data available.



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