

Version: 1.1 Revision Date: 01-07-2020

# SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

## 1. Identification

Product No.:

Product identifier: Silica Gel

#### Other means of identification

3404, 3405, 3414, 10510, 10818, 11223, 11234, 12980, 13010, 13210, 13625, 21220, 21225, 21228, 25530, 25533, 29220

## **Recommended restrictions**

**Recommended use:** For Laboratory, Research or Manufacturing Use. **Restrictions on use:** Not determined.

#### Details of the supplier of the safety data sheet

Company Name: Address:	Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200 Radnor, PA 19087
Telephone:	Customer Service: 855-282-6867
Contact Person: E-mail:	Product Information Compliance info@avantormaterials.com

## **Emergency telephone number:**

CHEMTREC: 1-800-424-9300 within US and Canada (24 hrs/day, 7 days/week)

## 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	Not applicable
Hazard(s) not otherwise	None.

classified (HNOC):

## 3. Composition/information on ingredients

## **Substances**

Cupotanooo	
Composition Comments:	No hazardous ingredients.
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/effec	ts, 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:	The product is non-combustible.
Suitable (and unsuitable) exting	uishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	None known.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	nd 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 measure	2S
Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment

Personal Protective Equipment.

emergency procedures:

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Methods and material for containment and cleaning up:	Avoid dust formation. 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 Lin	nit Values	Source
Silica gel	REL		6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA		20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

#### 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.
Eye/face protection:	Use tight fitting goggles if dust is generated.
Skin Protection Hand Protection:	Wear protective gloves.
Other:	Wear suitable protective clothing.
<b>Respiratory Protection:</b>	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:	No data available.	
pH:	No data available.	
Melting point/freezing point:	1,610 °C	
Initial boiling point and boiling range:	2,230 °C	
Flash Point:	No data available.	
Evaporation rate:	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.	
Explosive limit - upper (%):	No data available.	
Explosive limit - lower (%):	No data available.	
Vapor pressure:	No data available.	
Vapor density:	No data available.	
Density:	2.1 g/ml (20 °C)	
Relative density:	2.1 (20 °C)	
Solubility(ies)		
Solubility in water:	Insoluble	
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.
Conditions to avoid:	Excessive heat. Moisture. Contact with incompatible materials.
Incompatible Materials:	Strong oxidizing agents. Strong bases. Hydrogen fluoride. Halogenated materials. Magnesium.
Hazardous Decomposition Products:	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 effe	ects	
Acute toxicity (list all possible	e 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 Sensitizatio Product:	n 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		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): 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 Tox	xicity - 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 (BC Product:	r) No data available on bioaccumulation.
Partition Coefficient n-octanol / wa Product:	<b>ater (log Kow)</b> 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.
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

## DOT

Not regulated.

#### IMDG

Not regulated.

#### ΙΑΤΑ

Not regulated.

## 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. 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.

# SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

## SARA 311/312 Hazardous Chemical

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

## **US. Massachusetts RTK - Substance List**

Chemical Identity Silica gel

#### US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Silica gel

#### **US. Rhode Island RTK**

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

## International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

## Kyoto protocol

Not applicable

## **Inventory Status:**

Australia AICS: Canada DSL Inventory List: China Inv. Existing Chemical Substances: Japan (ENCS) List: Japan ISHL Listing: Korea Existing Chemicals Inv. (KECI): Mexico INSQ: New Zealand Inventory of Chemicals: Philippines PICCS: Taiwan Chemical Substance Inventory: US TSCA Inventory: EINECS, ELINCS or NLP: On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory.

## 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:	01-07-2020
Revision Information:	Not relevant.
Version #:	1.1
Source of information:	Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.
Further Information:	No data available.
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