

Material Safety Data Sheet

Date Printed: 01/27/2007 Date Updated: 02/04/2006

Version 1.90

Section 1 - Product and Company Information

Product Name Product Number Silica gel, 70-230 mesh, 60Å, for column chromatography 288624

Brand

Sigma-Aldrich

Company Street Address Sigma-Aldrich

3050 Spruce Street
SAINT LOUIS, MO 63103 US

City, State, Zip, Country Technical Phone:

800-325-5832

800-325-5052

Emergency Phone:

314-776-6555

231-545-4

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313

EC no Annex I Index Number

SILICA, AMORPHOUS, PRECIPITATED AND GEL 112926-00-8 No

Formula Synonyms

Fax:

Section 3 - Hazards Identification

Emergency Overview

Caution: Avoid contact and inhalation. Target organ(s): Lungs.

HMIS Rating

Health: 1*

Flammability: 0

Reactivity: 1

NFPA Rating

Health: 1

Flammability: 0

Reactivity: 1

*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyellds with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp:

N/A

Extinguishing Media

Suitable

Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed.

Special Requirements

Hygroscopic.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand

Protective gloves.

Eye

Chemical safety goggles.

General Hygiene Measures

Wash thoroughly after handling.

Exposure Limits, RTECS

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<u>Country</u> USA	<u>Source</u> ACGIH	<u>Type</u> TWA	<u>Value</u> 10 MG/M3
<u>Remarks</u> : total dust USA	OSHA.	PEL	8H TWA 80
USA	NIOSH	TWA	MG/M3/%SIO2 6 MG/M3

Section 9 - Physical/Chemical Properties

Appearance			
Physical	State		
Solid			

Molecular Weight N/A рΗ N/Α **BP/BP Range** NA NΑ MP/MP Range Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density N/A **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** N/A **Water Content** N/Α Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A **Partition Coefficient** N/Α Decomposition Temp. N/A Flash Point °F NA Flash Point °C N/A

Section 10 - Stability and Reactivity

N/A

N/A

N/A

N/A

Stability

Stable Stable.

Explosion Limits

Autoignition Temp

N/A = not available

Flammability

Solubility

Conditions to Avoid

Moisture.

Materials to Avoid

Strong acids, Hydrogen fluoride.

Hazardous Decomposition Products Hazardous Decomposition Products

Nature of decomposition products not known.

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Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

May cause eye irritation.

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May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion

May be harmful if swallowed.

Target Organ(s) or System(s)

Lungs.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3); however, crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1) (IARC, Vol.: 68 (1997) (p. 41)). Therefore, amorphous silica should be handled as if possessing the same hazards as the crystalline form.

RTECS Number: VV7315000

Chronic Exposure - Carcinogen

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC Carcinogen List

Rating Group 3

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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Section 15 - Regulatory Information

EU Additional Classification

S: 22 24/25 Safety Statements

Do not breathe dust. Avoid contact with skin and eyes.

US Classification and Label Text

US Statements

Caution: Avoid contact and inhalation. Target organ(s): Lungs.

United States Regulatory Information

SARA Listed: No

Section 16 - Other Information

For R&D use only. Not for drug, household or other uses.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

