



SAFETY DATA SHEET

Preparation Date: 10/2/2014 Revision Date: 10/2/2014 Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: SIL57

Product Name: Silica Gel Grade 60, 60-200 Micron, 60 A

Other means of identification

Synonyms: Silicon Dioxide, chemically prepared.

Synthetic amorphous silica, not to be confused with crystalline silica such as quartz, cristobalite, or tridymite or with diatomaceous earth or other naturally occuring forms

of amorphous silica that frequently contain crystalline forms

CAS #: 7631-86-9
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified			

Hazards not otherwise classified (HNOC)

Not Applicable

Product code: SIL57 Product name: Silica Gel Grade 60, 60- 1/11

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Silica Gel Grade 60, 70-230 mesh	7631-86-9	100	*
7631-86-9			

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give

oxygen. Otain medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms

May cause eye/skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products:No information available.

Specific hazards:

No information available.

Special Protective Actions for Firefighters

Product code: SIL57 Product name: Silica Gel Grade 60, 60- 2 / 11

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal

protective equipment.

Environmental precautions No information available.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong acids. Hydrogen fluoride. Chlorine trifluoride. Oxygen difluoride.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	20mppcfTWA	6 mg/m³ TWA	None	None
Silica Gel Grade 60, 70-230 mesh -	(80)/(% SiO2) mg/m ³ TWA			
7631-86-9				

Canada

Components	Alberta	British Columbia	Ontario	Quebec

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	None	None	None	None
Silica Gel Grade 60, 70-230 mesh -				
7631-86-9				

Australia and Mexico

Components	Australia	Mexico
Silica Gel Grade 60, 70-230 mesh	2 mg/m³ TWA	None
7631-86-9	-	

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Product code: SIL57

Eye protection: Safety glasses. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Wear respirator with dust filter...

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Product name: Silica Gel Grade 60, 60-

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:Solid.Powder.White.

Odor:TasteMolecular/Formula weight:Odorless.Tasteless.No information available

Flash point (°C): Flash Point Tested according to:

No data available No information available. Not applicable

Lower Explosion Limit (%): Upper Explosion Limit (%): Autoignition Temperature (°C/°F):

pH: Melting point/range(°C/°F): Boiling point/range(°C/°F):

No information available 1710 °C/3110 °F 2230 °C/4046 °F

Decomposition temperature(°C/°F): Specific gravity: Density (g/cm3):

No information available 2.1-2.2 No information available

Bulk density: Vapor pressure @ 20°C (kPa): Evaporation rate:
No information available No information available

Vapor density:VOC content (g/L):Odor threshold (ppm):No information availableNo information availableNo information available

Partition coefficient Viscosity: Miscibility:

(n-octanol/water): No information available No information available

No information available

Solubility:

Insoluble in water Insoluble in Ethanol

Insoluble in acids except hydrofluoric

acid

Very Slightly soluble in alkali

Soluble in hot KOH or NaOH solutions

10. STABILITY AND REACTIVITY

Reactivity

Hygroscopic. It absorbs moisture from the air

Reactive with strong acids

Vinyl acetate vapor may react vigorously in contact with Silica gel

Chemical stability

Stability: Stable at normal conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Incompatible materials. Exposure to moist air. Exposure to moisture.

Incompatible Materials: Strong acids. Hydrogen fluoride. Chlorine trifluoride. Oxygen difluoride.

Hazardous decomposition products: No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Silica Gel Grade 60, 70-230 mesh - 7631-86-9

LD50/oral/rat = >5000 mg/kg Oral LD50 Rat **LD50/oral/mouse** = No information available

LD50/dermal/rabbit = >2000 mg/kg

LD50/dermal/rat = No information available

LC50/inhalation/rat = $>2.2 \text{ mg/l} \cdot 1 \text{ h}$

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = >5000mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = >2000mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available **VALUE-Gas** = No information available **VALUE-Dust/Mist** = >2.2mg/l (1-hr)

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation. May cause dryness of the skin in cases of severe

exposure.

Eye Contact: May cause eye irritation. May cause irritation of the eye by mechanical action.

Inhalation May cause irritation of respiratory tract. May cause dryness and irritation to mucous

membranes and respiratory tract in cases of severe exposure.

Ingestion Health injuries are not known or expected under normal use. Not expected to be a

health hazard.

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Aspiration hazardNo information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Repeated or prolonged skin contact may cause dryness and cracking of the skin

Chronic inhalation of Amorphous silica may rarely cause Silicosis, Pneumoconiosis, bronchitis, emphysema, asthma...Symptoms may include cough, and dfficulty

bronchitis, emphysema, asthma..Symptoms may include cough, and dfficulty breathing and shortness of breath (dyspnea). One case suggests a potential link

between occupational exposure to silica and bronchiolitis obliterans

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not classifiable as to its carcinogenicity to humans.

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Silica Gel Grade 60, 70- 230 mesh	Not listed	Group 3 - Monograph 68 [1997] Supplement 7 [1987]		Not listed	Not listed	Not listed

IARC (International Agency for Research on Cancer) Group 3 - Not classifiable as to its carcinogenicity to humans

Reproductive toxicity No data is available

Reproductive Effects:

Developmental Effects:

Teratogenic Effects:

No information available
No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available
Lungs. Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Silica Gel Grade 60, 70-230 mesh - 7631-86-9

Freshwater Algae Data: 440 mg/L EC50 Pseudokirchneriella subcapitata 72 h
Freshwater Fish Species Data: 5000 mg/L LC50 Brachydanio rerio 96 h static 1
Water Flea Data: 7600 mg/L EC50 Ceriodaphnia dubia 48 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

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13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Silica Gel Grade 60, 70-230 mesh	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated

Proper Shipping Name: No information available Hazard Class: No information available

Subsidiary Risk: Not applicable

Packing Group: None

Marine PollutantNo data availableERG No:No information availableDOT RQ (lbs):No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name: No information available No information available **Hazard Class: Subsidiary Risk:** No information available **Packing Group:** No information available **Description:** No information available **IMDG Page:** No information available **Marine Pollutant** No information available MFAG: No information available

Product code: SIL57 Product name: Silica Gel Grade 60, 60-

14. TRANSPORT INFORMATION

Maximum Quantity: No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Silica Gel Grade 60, 70-230 mesh	Present	Present KE- 31032	Present	Present (1)- 548	Present	Present	Present 231-545-4

U.S. Regulations

Silica Gel Grade 60, 70-230 mesh

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: Present

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive	Female Reproductive
			Toxicity	Toxicity:
Silica Gel Grade 60, 70-230 mesh	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

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·	Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Chemical Category	Section 313 - Reporting de minimis
Silica Gel Grade 60, 70- 230 mesh	None	None	None	None	None

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Silica Gel Grade 60, 70-230 mesh	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

Non-controlled

Silica Gel Grade 60, 70-230 mesh

Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Silica Gel Grade 60, 70-230 mesh	1 %

Inventory

Components	Canada (DSL)	Canada (NDSL)
Silica Gel Grade 60, 70-230 mesh	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
Silica Gel Grade 60, 70-230 mesh	Not listed	Not listed

EU Classification

R-phrase(s)

none

S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Silica Gel Grade 60, 70-230 mesh		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Not dangerous

Product code: SIL57 Product name: Silica Gel Grade 60, 60-

16. OTHER INFORMATION

NFPA HMIS Personal Protective Equipment



Health Hazard	1
Fire Hazard	0
Reactivity	0



See Section 8.

Preparation Date:10/2/2014Revision Date:10/2/2014Prepared by:Sonia Owen

Disclaimer:

Product code: SIL57

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Material Safety Data Sheet

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