

Material Safety Data Sheet

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Silica Gel, 60-200 Mesh
96924

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Silica Gel, 60-200 Mesh

Catalog Numbers:

AC419280010, AC419280020, AC419282500, AC419285000, S/0697/48, S/0697/50,
S/0697/53, S/0720/53, S/0720/60, S/0730/53, S/0780/53, S/0780/60, S/0790/53

Synonyms:

Diatomaceous earth; Infusorial earth; Silicon dioxide; Amorphous
silica; Non-crystalline form of SiO₂.

Company Identification: Fisher Scientific UK
Bishop Meadow Road, Loughborough
Leics. LE11 5RG

For information, call: (01509) 231166

For emergencies, call: 01509 231166

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
7631-86-9	Silica, amorphous	100	231-545-4

Text for R-phrases: see Section 16

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye:

Dust may cause mechanical irritation.

Skin:

Low hazard for usual industrial handling.

Ingestion:

No hazard expected in normal industrial use.

Inhalation:

May cause respiratory tract irritation.

Chronic:

Chronic inhalation of dust may lead to silicosis. Chronic inhalation
can cause pneumoconiosis.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes,
occasionally lifting the upper and lower eyelids. If irritation
develops, get medical aid.

Skin:

Flush skin with plenty of water for at least 15 minutes while
removing contaminated clothing and shoes. Get medical aid if
irritation develops or persists. Wash clothing before reuse.

Ingestion:

If swallowed, do not induce vomiting unless directed to do so by
medical personnel. Never give anything by mouth to an unconscious
person. Get medical aid.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial
respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in
pressure-demand, MSHA/NIOSH (approved or equivalent), and full
protective gear. Substance is noncombustible.

Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Material is a regenerative adsorbent capable of taking up and holding about 4X its weight of water. If spilled, it will adsorb water vapor from the air and any moisture from surroundings.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust.

Storage:

Store in a cool, dry place. Keep container closed when not in use. Store protected from moisture.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

CAS# 7631-86-9:

United Kingdom, WEL - TWA: 6 mg/m³ TWA (inhalable dust); 2.4 mg/m³ TWA (respirable dust)
United Kingdom, WEL - STEL: 18 mg/m³ STEL (inhalable dust); 7.2 mg/m³ STEL (respirable dust)

Germany: 4 mg/m³ TWA (inhalable fraction)

Russia: 1 mg/m³ TWA

CAS# 112926-00-8:

Belgium - TWA: 10 mg/m³ VLE

Malaysia: 10 mg/m³ TWA

Spain: 10 mg/m³ VLA-ED

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Glove protection is not normally required.

Clothing:

Protective garments not normally required.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State:	Powder
Color:	white to gray white
Odor:	odorless
pH:	Not available.
Vapor Pressure:	0 mm Hg @ 25 deg C
Viscosity:	Not available.
Boiling Point:	2230 deg C
Freezing/Melting Point:	1710 deg C
Autoignition Temperature:	Not applicable.
Flash Point:	Not applicable.
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	

Solubility in water: Insoluble.
 Specific Gravity/Density: 2.20g/cm
 Molecular Formula: SiO₂
 Molecular Weight: 60.08

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:
 Stable under normal temperatures and pressures.
 Conditions to Avoid:
 Dust generation, moisture.
 Incompatibilities with Other Materials:
 Fluorine, oxygen difluoride, chlorine trifluoride, hydrogen fluoride.
 Hazardous Decomposition Products:
 Oxides of silicon.
 Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:
 CAS# 7631-86-9: EU8655000 VV7565000
 CAS# 112926-00-8: VV7315000
 LD50/LC50:
 CAS# 7631-86-9: Draize test, rabbit, eye: 25 mg/24H Mild.
 CAS# 112926-00-8.
 Carcinogenicity:
 Silica, amorphous -
 Not listed by ACGIH, IARC, or NTP.
 Silica gel, pptd., cryst.-free, hydrated form -
 Not listed by ACGIH, IARC, or NTP.
 Other:
 See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Other
 No information available.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.

**** SECTION 14 - TRANSPORT INFORMATION ****

IATA
 Shipping Name: Not regulated.
 Hazard Class:
 UN Number:
 Packing Group:
 IMO
 Shipping Name: Not regulated.
 Hazard Class:
 UN Number:
 Packing Group:
 RID/ADR
 Shipping Name: Not regulated.
 Hazard Class:
 UN Number:
 Packing group:

**** SECTION 15 - REGULATORY INFORMATION ****

European/International Regulations
 European Labeling in Accordance with EC Directives
 Hazard Symbols: Not available.
 Risk Phrases:
 Safety Phrases:
 S 24/25 Avoid contact with skin and eyes.
 WGK (Water Danger/Protection)
 CAS# 7631-86-9: 0
 CAS# 112926-00-8: 0
 Canada
 CAS# 7631-86-9 is listed on Canada's DSL List.
 CAS# 112926-00-8 is listed on Canada's DSL List.
 CAS# 7631-86-9 is listed on Canada's Ingredient Disclosure List.
 CAS# 112926-00-8 is not listed on Canada's Ingredient Disclosure List.
 US FEDERAL
 TSCA

CAS# 7631-86-9 is listed on the TSCA inventory.

CAS# 112926-00-8 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

**** SECTION 16 - ADDITIONAL INFORMATION ****

Text for R-phrases from Section 2

MSDS Creation Date: 1/05/1998 Revision #4 Date: 11/10/2004

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

