

Silica Gel, 60-200 Mesh
MSDS# 96924

Section 1 - Chemical Product and Company Identification

MSDS Name:

Silica Gel, 60-200 Mesh

Catalog Numbers:

41928-0000, 41928-0010, 41928-0020, 41928-2500, 41928-5000, 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 in Europe, call:(01509) 231166

Emergency Number, Europe:01509 231166

Section 2 - Composition, Information on Ingredients

CAS#: 7631-86-9
Chemical Name: Silica, amorphous
%: 100
EINECS#: 231-545-4
Hazard Symbols:
Risk Phrases:

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 (4,046.00°F)
Freezing/Melting Point: 1710 deg C (3,110.00°F)
Autoignition Temperature: Not applicable
Flash Point: Not applicable.
Explosion Limits: Lower:Not available
Explosion Limits: Upper:Not available
Decomposition Temperature: Not available
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

Chlorine trifluoride, fluorine, oxygen difluoride, 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 -

IARC: Group 3 (not classifiable)

Silica gel, pptd., cryst.-free, hydrated form -

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other:

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

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 in on the

Section 16 - Other 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 event 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

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