

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Preparation/Revision Date:
03/19/07

Distributor:
Teledyne Isco, Inc.
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Lincoln, NE 68501-2531

Phone Number: (402) 464-0231
Hours: Mon.-Fri. 8:00a.m.-4:30p.m. CST

Product Name: RediSep® - Normal Phase, Reverse Phase C-18,
Amine, Cyano, Diol, SAX, SCX

Solid Sample Cartridges – 5g, 25g, 65g, 270g

Silica Gel

Product Content: Amorphous Silicon Dioxide
or
Derivatized Amorphous Silicon Dioxide

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component: Amorphous Silicon Dioxide, chemically prepared **CAS #:** 7631-86-9

Additional Information: See section 8 for exposure limits.

3. HAZARDS IDENTIFICATION

NFPA ratings (scale 0 – 4)

Health = 1
Fire = 0
Reactivity = 0

HIMS – ratings (scale 0 – 4)

Health 1
Fire 0
Reactivity 0

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4. FIRST AID MEASURES

Emergency First Aid:

GET MEDICAL ASSISTANCE IF ANY ADVERSE EFFECTS SHOULD DEVELOP.

Skin: Immediately rinse with water. Generally the product does not irritate the skin.

Eyes: Immediately rinse under running water for at least 15 minutes, lifting upper and lower eyelids occasionally.

Inhalation: Supply fresh air.

Ingestion: If large amounts are swallowed, wash mouth out with water.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

Fire Fighting Procedures: Use fire fighting measures that suit the environment.

Protective equipment: Wear protective equipment.

Fire & Explosion Hazards: Not an explosion hazard

Flammability: Not flammable

Flash Point (°F): Not applicable

Auto Igniting: Not self igniting

Additional Information:

Dispose of fire debris and contaminated water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Avoid formation of dust. Wear protective clothing.

Measures for cleaning/collecting: Vacuuming or wet sweeping may be used to avoid dust dispersal.

Measures for environmental protection: Containerize for reclamation or disposal.

Additional information: See section 7 for safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

Handling:

Information about protection against explosions and fires:

Storage:

Information about storage in one common storage facility: None required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component: Amorphous Silicon Dioxide, chemically prepared **CAS #:** 7631-86-9

Exposure Limits: NIOSH short term value – IDLH: 3000mg/m³
 OSHA TWA – PEL: 80/(%SiO₂) mg/m³
 NIOSH TWA – REL: 6mg/m³
 ACGIH TWA – TLV: 10mg/m³ Total Dust
 5mg/m³ Respirable fraction

Personal Protective Equipment:

General protection and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

If exposure limit is exceeded, a suitable respiratory protective device is recommended.

Eye protection: Safety glasses.

Protection of hands: The glove material has to be impermeable to the product/ the substance/ the preparation.

Body protection: Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: RediSep® - Solid, (50mm Average particle size) powder
Solid Sample Cartridge 5g, 25g – Solid, 40-63µm powder
Solid Sample Cartridge 65g, 270g – Solid, 75-150µm powder

Color: White to off-white

Odor: None

pH at 20°C (68°F): 6.0-8.0 (5% slurry)

Melting Point (°C): Undetermined

Density: Not determined

Bulk Density (lb/ft³): 25-35

Solubility in Water (%): Insoluble

10. STABILITY AND REACTIVITY

Thermal decomposition/conditions to be avoided:

No decomposition if used according to specifications.

Dangerous Reactions: Reacts with Hydrogen Fluoride.

Dangerous products of decomposition: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Component: Amorphous Silicon Dioxide, chemically prepared

CAS #: 7631-86-9

Acute toxicity: Oral – LD50: 10000 mg/kg (rat)

Dermal – LD50: >5000 mg/kg (rabbit) OECD 402

Inhalative – LC50: >0.139 mg/l/14h (rat)

Primary irritant effect:

On the skin: May cause irritation with dryness and abrasion.

In the eye: May cause abrasion, redness and pain.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity:

Amorphous silicon dioxide, chemically prepared:

No negative effects were determined during tests for chronic oral toxicity, carcinogenicity, teratogenicity and fertility. No irreversible changes and no symptoms of silicosis were determined during tests for chronic inhalative toxicity.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects based on the experience and information provided to us by the manufacturer.

12. ECOLOGY INFORMATION

Component: Amorphous Silicon Dioxide, chemically prepared **CAS #:** 7631-86-9

Aquatic toxicity: Fish – LC50 (96 h): >10000 mg/l (Brachydanio rerio) OECD 202

Water Flea – EC50 (24 h): >1000 mg/l (Daphnia magna) OECD 202

General Note: Generally not hazardous for water.

13. DISPOSAL CONSIDERATIONS

EPA Waste Numbers: None

Dispose of in accordance with all federal, state, provincial and local regulations.

14. TRANSPORT INFORMATION

Not regulated as hazardous goods by DOT, ADR, IMO or IATA.

15. REGULATORY INFORMATION

None of the ingredients are listed under the following:

SARA section 313 and 355

TLV-ACGIH

Proposition 65

NIOSH-Ca

EPA

OSHA-Ca

IARC

Canadian NDSL

NTP

All ingredients are listed with the following:

TSCA

MAK

Canadian DSL

Japan ENCS

Korea ECL

Philippines: PICCS

Australia: AICS

European EINECS

16. OTHER INFORMATION

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