

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: January 24, 2017

02040-AE, 02050-AC

SPI-Dry™ Desiccant Capsules with Red/Pink Indicator

Section 1.1: Identification

Chemical Name/Synonyms Silica gel desiccant capsules, indicating

Product or Trade Name SPI-Dry™ Desiccant Capsules

CAS #'s 112926-00-8, 7646-79-9

Chemical Formula..... mixture

Section 1.2: Relevant Uses/Restrictions

Laboratory chemical, moisture absorbing

Section 1.3: Supplier of the Safety Data Sheet

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Section 1.4: Emergency telephone number

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

Section 2: Hazard Identification

2.1 Classification of the substance

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity – single exposure (Category 3), Respiratory system

2.2 Label elements

Pictogram



Signal Word: Warning

Hazard statements:

- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation.

Precautionary statements:

- P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P264: Wash skin thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/ eye protection/ face protection.
- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P332 + P313: If skin irritation occurs: Get medical advice/ attention.
- P337 + P313: If eye irritation persists: Get medical advice/ attention.
- P362: Take off contaminated clothing and wash before reuse.
- P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
- P501: Dispose of contents/ container to an approved waste disposal plant.

2.3 Other Hazards: None known.

Hazardous Material Information System USA

Health 2
Fire Hazard 0
Reactivity 0
Personal Protection

NFPA Rating (estimated)

Health 2
Flammability 0
Reactivity 0

Section 3: Composition

3.1 Substances: SPI-Dry™ Desiccant Capsules

Component Name	CAS #	Percent	EINECS/ELINCS
Silica, amorphous	7631-86-9	85-95	231-545-4
Cobalt chloride	7646-79-9	.5	231-589-4

Section 4: First Aid Measures

4.1 Description of first aid measures:

Eyes: Rinse thoroughly with water for at least 15 minutes. Seek medical attention.

Skin: Wash with plenty of soap and water. If irritation develops, seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. If conscious, rinse mouth with water. Seek medical attention.

Inhalation: If inhaled, move person to fresh air. If not breathing, give artificial respiration and seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in Section 2.2 and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No further information available.

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

The nature of decomposition products is not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4 Further information

No further information available.

Section 6: Accidental Release Measures

6.1 Personal precautions

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Evacuate personnel to safe areas.

6.2 Environmental precautions

Do not let product enter drains or waterways.

6.3 Methods and material for containment and cleaning up

Sweep up and arrange for disposal without creating dust. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal, see Section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes.
Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
Use normal measures for preventive fire formation.
See Section 2.2 for precautions.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

Laboratory chemical for moisture absorption.
This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

Section 8: Exposure Controls and Personal Protection

8.1 Control parameter and Personal Protection

Engineering Controls:

Natural ventilation to keep below TLV/TWA exposure limits (for amorphous silica dust).

Exposure Limits:

Chemical Name	ACGIH	OSHA PELs
Silica*	10 mg/m ³	NE
Cobalt Chloride **	0.02 mg/m ³	NE

*Silica gel, precipitated, hydrated, crystalline free

** Inorganic cobalt compounds

Cobalt chloride (CAS# 7646-79-9) is listed by the NTP and IARC as possibly carcinogenic to humans. It is not OSHA regulated.

Silica, amorphous (CAS# 63231-67-4) is not listed by NTP or IARC, and is not OSHA regulated.

Biological limit values

No additional information available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of the workday.

8.2.2 Individual protection measures

Eyes: Wear safety glasses with side shields.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149 if excessive dust is present.

8.2.3 Environmental exposure controls
Do not let product enter drains.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State: solid

Appearance: Blue capsule, which turns pink when moist

Odor: odorless

pH: NA

Vapor Pressure: NA

Vapor Density: NA

Evaporation Rate: NA

Viscosity: NA

Boiling Point: NA

Freezing/Melting Point: NA

Autoignition Temperature: NA

Flash Point: NA

Decomposition Temperature: NA

Explosion Limits:

Lower: NA

Upper: NA

Solubility in water: NA

Specific Gravity/Density: NA

Molecular Formula: NA

Molecular Weight: NA

NA = Not available

9.2 Other information

No additional information available.

Section 10: Stability and Reactivity

10.1 Reactivity

No data available.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

No data available.

10.4 Conditions to avoid

Avoid moisture.

10.5 Incompatible materials

Strong acids.

10.6 Hazardous decomposition products

Other decomposition products – no data available.

In the event of fire: See Section 5.

Section 11: Toxicological Information

Information on the likely routes of exposure

Symptoms

11.1 Information on toxicological effects

A. Acute toxicity

RTECS#:

CAS# 7646-79-9: GF9800000

CAS#: 63231-67-4: VV7315000

LD₅₀/LC₅₀ Information:

CAS# 7646-79-9: Oral, Rat LD50 = 766 mg/kg

B. Skin corrosion/irritation

Causes skin irritation (Category 2)

C. Serious eye damage/irritation

Causes serious eye irritation.

D. Respiratory of skin sensitization

No data available.

E. Germ cell mutagenicity

No data available.

F. Carcinogenicity

Carcinogenicity:

CAS# 7646-79-9:

IARC: Group 2B – Possibly carcinogenic to humans.

NTP: Not identified as a known or anticipated carcinogen.

OSHA: Not identified as a carcinogen or potential carcinogen.

No component of this product present at levels greater than or equal to 0.1% is identified as a:

Probable, possible or confirmed human carcinogen by IARC

Carcinogen or potential carcinogen by ACGIH

Known or anticipated carcinogen by NTP

Carcinogen or potential carcinogen by OSHA

G. Reproductive toxicity

No data available

H. STOT-single exposure

Inhalation – May cause respiratory irritation.

I..STOT-repeated exposure
No data available.

J. Aspiration hazard
No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

12.1 Toxicity – no data available.

12.2 Persistence and degradability – no data available.

12.3 Bio-accumulative potential – no data available.

12.4 Mobility in soil – no data available.

12.5 Results of PBT and vPvB assessment – not available as chemical safety assessment not required/ not conducted.

12.6 Other adverse effects – no data available.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging:

Dispose of as unused product.

Section 14: Transport Information

DOT – Not dangerous goods.

IATA – Not dangerous goods.

IMDG – Not dangerous goods.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute health hazard

State (Individual states in the USA):

CAS# 7646-79-9 is listed under the New Jersey and Pennsylvania Right To Know Laws.

California Prop. 65:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canada

DSL/NDSL List:

CAS# 63231-67-4 is listed on the DSL List.

CAS# 7646-79-9 is listed on the DSL List.

This product has a WHMIS classification of: Not listed.

15.2 Chemical Safety Assessment

Date of Preparation: January 24, 2017.

Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

CMRG: Chemical Manufacturer's Recommended Guidelines

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulative and Toxicological

vPvB: very Persistent and very Bio-accumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

STEL: Short Term Exposure Limit

CEIL: Ceiling

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body;

direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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