

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: March 22, 2013

SPI #01703-AC, 01703-BA, 01703-FA, 01703-MB
SPI Supplies® Brand Platinum Wire

SPI #14122-AB, 14146-AB, 14157-AB Platinum
Cathodes

SPI #01809-AB Platinum Boats

Section 1: Identification

Chemical Name/Synonyms.....Platinum metal

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-527-3887

Worldwide FAX: 1-(703)-741-6090

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

CAS #'s.....7440-06-4

Chemical Formula.....Pt

Hazardous Material Information System USA

Health.....0

Fire Hazard.....1

Reactivity.....0

Personal Protection.....

NFPA Rating (estimated)

Health.....0

Flammability.....1

Reactivity.....0

GHS Classification:None

Hazard Symbol(s)



Signal Word: Warning

Hazard Statement(s)

H320: Causes eye irritation

H316: Causes mild skin irritation

Precautionary Statement(s)

None

Section 2: Composition

Component	CAS#	EC#	Percent
Platinum	7440-06-4	231-116-1	99.9

Section 3: Hazard Identification

Emergency overview: No significant acute or chronic effects are known from exposure to platinum in solid form; however, in finely divided form mild adverse reactions may be observed.

Target organs: No known

Physical Health Hazards: In finely divided form platinum may cause the following: localized argyria and irritation on the skin, vomiting and abdominal pain, conjunctivitis and/or localized argyria irritation to the eye.

Physical state: Solid

Color: Silver gray

Routes of exposure Eye contact, ingestion, skin contact

Section 4: First Aid Measures

Inhalation: If signs and symptoms of toxicity are observed remove subject from contaminated area, administer oxygen and seek medical attention. Keep the subject warm and at rest. Perform artificial respiration if breathing has stopped.

Skin: Following repeated or prolonged contact, remove contaminated clothing, wash affected area with large quantities of water for at least five minutes. Seek assistance if necessary.

Eyes: Flush affected areas with water for at least 15 minutes. Seek medical assistance if necessary.

Ingestion: If subject is conscious, induce vomiting. If unconscious or convulsive, seek immediate medical attention.

Section 5: Fire Fighting Measures

Flash Point: Not available

Autoignition: Not available

Lower Explosive Limit: Not available

Upper Explosive Limit: Not Available

Fire and Explosion Hazard: Dust, powder and fumes are flammable or explosive when exposed to heat, flame, or by chemical reaction with oxidizing agents.

Extinguishing Media: Use dry powder, DO NOT use Water

Special Fire Fighting Instructions: Use self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode.

Section 6: Accidental Release Measures

General Information: Do not allow material to be released to the environment without proper government permits.

Spills/Leaks: Pick up mechanically. Transfer to glass or metal container for proper disposal or salvage.

Section 7: Handling and Storage

In solid form this material poses no special problems. Store metal in a dry area. Do not store adjacent to acids.

Section 8: Exposure Controls and Personal Protection

Engineering Controls: No further data

Exposure Limits:

Form	CAS#	ACGIH TLV	OSHA PEL
Platinum (metal)	7440-06-4	1 mg/m ³ TWA	1 mg/m ³ TWA
Platinum (soluble salts)	7440-06-4	0.002 mg/m ³ TWA	0.002 mg/m ³

Ventilation: Use mechanical local exhaust ventilation adequate to maintain airborne concentrations of all components and their decomposition products to within their respective OSHA PELs.

Personal Protection

Eye: Wear protection (safety glasses, dust proof goggles) adequate to prevent eye contact with this material.

Skin: Wear appropriate protective gloves and clothing for prolonged or repeated contact with finely divided material

Respiratory: If exposure levels exceed OSHA PELs wear a NIOSH/MSHA approved respirator having a protection factor appropriate to the airborne concentrations of the contaminant generated.

Hygienic Practices: To avoid ingestion of material, wash hands and face before eating, drinking, or consumption of tobacco

Section 9: Physical and Chemical Properties

Physical State: Solid

Color: gray metal

Odor: odorless

Flash Point: Not determined

Explosive Limits: Not determined

Autoignition Point: Not determined

Boiling Point/Range 760 mm Hg: 3827°C (6921°F)

Water Solubility: Insoluble

Melting Point: 1772°C (3222°F)

Packaging Density: 11.31/in³

Vapor density (air = 1): Not available

Specific Gravity: 21.5

Evaporation Rate: Solid - not applicable

Section 10: Stability and Reactivity

Chemical Stability: Decomposition will not occur if used and stored according to specifications.

Incompatibility with Other Materials: Acetylene, Acetone, Aluminum and Strong oxidizers

Hazardous Decomposition of Products: None known

Dangerous Reactions: None known

Section 11: Toxicological Information

Component	CAS#	RTECS#
Platinum	7440-06-4	TP2160000

Skin: In powder form, an irritant

Eyes: In powder form, an irritant

Sensitization: Platinum salts may cause severe allergic reactions.

Other information: Tumorigenic effects have been observed on tests with laboratory animals.

Exposure to platinum containing dusts or fumes may cause irritation, sensitization reactions and asthma. Cyanosis is possible. Chronic exposure may result in pulmonary fibrosis.

RTECS contains tumorigenic and/or carcinogenic and/or neoplastic data for components of this product. There is no classification data on the carcinogenic properties of this material from EPA, IARC, NTP, OSHA OR ACGIH.

Section 12: Ecological Information

General: Do not allow material to be released to the environment without proper government permits.

Section 13: Disposal Considerations

General: Consult state, local or national regulations to ensure proper disposal. Disposal must be made according to official regulations.

Section 14: Transport Information

Not regulated

Section 15: Regulatory Information

Note: Observe the general safety regulations when handling chemicals. For use only by technically qualified individuals.

TSCA: Platinum (CAS# 7440-06-4) listed on the TSCA Chemical Substance Inventory of Existing Chemical Substances.

SARA Title III Notification and Information

Reportable Quantity Pounds: 1000

SARA 313: CAS# 7440-06-4 Platinum

State Information

California Prop. 65: Not listed

Right to Know: Platinum (CAS# 7440-06-4) can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

Canada

DSL/NDL: Platinum (CAS# 7440-06-4) is on the DSL

WHMIS: Not available

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 of fluids.

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