

# SPI Supplies Division

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Manufacturer's CAGE: 1P573

# Safety Data Sheet

Date Effective: December 5, 2014

SPI #01709-BA, 01717-BA Tungsten Wire;

SPI#01800-AB Tungsten Boats;

SPI#01801-BA, 01802-BA, 01803-BA Tungsten Wire Baskets;

SPI#4120W-BA, 4120W-MB Tungsten Grids

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## Section 1: Identification

Chemical Name/Synonyms..... Tungsten

Chemical family..... 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

Product or Trade Name..... SPI #01709-BA, 01717-BA Tungsten Wire;

SPI#01800-AB Tungsten Boats;

SPI#01801-BA, 01802-BA, 01803-BA Tungsten Wire Baskets;

SPI#4120W-BA, 4120W-MB Tungsten Grids

CAS #'s..... 7440—33-7

Chemical Symbol..... W

### OSHA Hazards

Not classified as hazardous according to OSHA.

### GHS

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Hazardous Material Information System USA

Health..... 0

Fire Hazard..... 0

Reactivity..... 0

Personal Protection.....

NFPA Rating (estimated)

Health..... 0

Flammability..... 0

Reactivity..... 0

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## Section 2: Composition

Component Name	CAS #	Percent
Tungsten	7440-33-7	100 %

EINECS NUMBER: 231-143-9  
RTECS#: YO7175000

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## Section 3: Hazard Identification

<b>Hazard description:</b>	not applicable
<b>Appearance:</b>	gray
<b>Flash Point:</b>	not applicable
<b>Potential Health Effects:</b>	not applicable

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## Section 4: First Aid Measures

**General Information:** No special measures required

**Eyes:** Rinse opened eye for several minutes under running water. If symptoms persist, seek medical attention.

**Skin:** Generally the product does not irritate the skin.

**Ingestion:** Seek medical attention.

**Inhalation:** Seek medical treatment in case of complaint.

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## Section 5: Fire Fighting Measures

**General Information:** Product is not flammable. Use suitable extinguishing agents for surrounding fire.

**Protective Equipment:** No special measures are required.

In case of fire, metal oxide fume may be released.

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## 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 suitable container for proper disposal or salvage.

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## Section 7: Handling and Storage

**Handling:** Keep container tightly closed. Wash thoroughly after handling. Avoid contact with skin and eyes. Do not inhale or ingest.

**Storage:** Store in cool, dry place in tightly closed containers.

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## Section 8: Exposure Controls and Personal Protection

### Engineering Controls:

No further data.

### Exposure Limits:

Chemical Name	ACGIH TLV mg/m <sup>3</sup>
Tungsten & compounds	1; 3 STEL (soluble compounds) 5; 10 STEL (insoluble compounds)

### Other Countries:

Denmark TWA	5
Netherlands MAC-TTG	5
Norway TWA	5
Poland	5 (fume and dust)
Russia	2-STEL
Sweden NGV	5
United Kingdom TWA	5; 10-STRL

### Personal Protective Equipment

**Eyes:** Safety glasses

**Skin:** Not required

**Clothing:** Protective work clothing

**Respirators:** Not required

**Engineering Controls:** The usual precautionary measures for handling chemicals should be followed.

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## Section 9: Physical and Chemical Properties

<b>Physical State:</b>	metal wire
<b>Appearance:</b>	gray
<b>Chemical Formula</b>	W
<b>Molecular Weight</b>	183.85
<b>Odor:</b>	odorless
<b>pH:</b>	not applicable
<b>Vapor Pressure:</b>	not determined
<b>Vapor Density:</b>	not determined
<b>Evaporation Rate:</b>	not determined
<b>Viscosity:</b>	not determined
<b>Boiling Point:</b>	5900°C
<b>Freezing/Melting Point:</b>	3410°C
<b>Autoignition Temperature:</b>	not determined
<b>Flash Point:</b>	not determined
<b>Decomposition Temperature:</b>	not determined
<b>Explosion Limits, Lower:</b>	not determined
<b>Upper:</b>	not determined
<b>Solubility in water:</b>	Insoluble
<b>Specific Gravity/Density:</b>	19.3 g/cm <sup>3</sup> @ 20° C

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## Section 10: Stability and Reactivity

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

**Incompatibility with Other Materials:** Oxidizing agents

**Hazardous Decomposition of Products:** None known

**Dangerous Reactions:** None known

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## Section 11: Toxicological Information

**Skin:** Mild skin irritant.

**Eyes:** Mild eye irritant.

May be harmful by ingestion, inhalation, or skin absorption. To the best of our knowledge the toxicological properties of this material have not been fully investigated.

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## Section 12: Ecological Information

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

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## Section 13: Disposal Considerations

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

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## Section 14: Transport Information

Not a hazardous material for transportation.

**US DOT Hazard Class:** none

**IATA (for international shipments):** none

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## Section 15: Regulatory Information

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

**National regulations:**

TSCA Inventory: 7440-33-7 is listed.

SARA: 7440-33-7 is not listed.

Canadian DSL: 7440-33-7 is listed.

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

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## 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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