

**SAFETY DATA SHEET**  
T-Flex® Shielding SDS

Revision Date: 09-Dec-16

**Section 1: Chemical Product and Company Identification**

**Product Name** T-Flex® Shielding

**Product Number(s):** Product Numbers beginning with: T26PS, T50PS, T62PS, T62PIPSHD, T26RW, T50RW, or T62RW, T26SLB, T50SLB, or T62SLB, T26BLKT, T50BLKT, or T62BLKT without Y or YH in number

**Product Synonym(s):** T-Flex® Blanket, T-Flex® Pipe Shield, T-Flex® Ribbon, T-Flex® Slab

**Identified Uses:** Radiation shielding applications across the nuclear industry

**Manufacturer:** MarShield  
4140 Morris Dr  
Burlington, Ontario L7L 5L6  
Canada

**General Information:** (8-4:30 EST M-F)  
(800) 381-5335  
(905) 637-3862

**24 Hour Emergency Number:**

**CHEMTREC: 800-424-9300**

**Section 2: Hazard(s) Identification**

**2.1 Classification of the substance or mixture**

**GHS Classification of substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)**

Not classified

**2.2 GHS Label elements, including precautionary statements**

**Pictogram:**

**NONE**

**Signal Word**

**None**

**Hazard Statement(s):**

Based on available data, the classification criteria under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) are not met.

**Precautionary Statement(s):**

Prevention

No precautionary statements because the product is not hazardous as defined by OSHA HCS 29 CFR 1910.1200.

Response

No precautionary statements because the product is not hazardous as defined by OSHA HCS 29 CFR 1910.1200.

Storage

P411+P235

Store at temperatures not exceeding 176°C/350°F.

Disposal

No precautionary statements because the product is not hazardous as defined by OSHA HCS 29 CFR 1910.1200.

**2.3 Hazards Not Otherwise Classified (HNOC) or not covered by GHS:**

**Section 3: Composition / Information on Ingredients**

Component	CAS Number	Percentage Range
Iron Metal (powder)	7439-89-6	0-95%
Tungsten Metal (Powder)	7439-89-6	0-95%
Non hazardous ingredients according to OSHA criteria.		5-25%

**Section 4: First-aid Measures**

General Advice	The hazardous properties of this material have not been established. Information is based on compositionally and physically similar materials.
Ingestion	Rinse mouth and call a POISON CONTROL CENTER or doctor if you feel unwell.
Skin Contact	Wash with plenty of soap and water. If skin irritation occurs, seek medical advice.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
Inhalation	Seek medical attention if acute effects develop
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	No further relevant information available

**Section 5: Firefighting Measures**

Extinguishing Media	Exposed iron and tungsten requires the use of dry sand or limestone to exclude oxygen. Foam, CO2, Dry Chemical
Fire and Explosion Hazards	When tungsten burns in air it forms tungsten trioxide, which sublimates above 750°C (1382°F)
Protective Equipment	Wear positive pressure self-contained breathing apparatus and full personal protective equipment.
Special Hazards	Silica, iron, and tungsten dust may present an explosion hazard under favoring conditions of dispersion, particle size, and strong ignition source. Possible combustion products include silicon dioxide (silica), tungsten, iron, carbon dioxide, and carbon monoxide. Tungsten powders less than 2 microns can oxidize in air by friction. Ultrafine powders may oxidize spontaneously in air.

**Section 6: Accidental Release Measures**

Personal Precautions	Use proper personal protect equipment (specified in section 8)
Methods and materials for containment and clean-up	Sweep up material and transfer to a suitable container for disposal.
Reference to other sections	For disposal see section 13.

**Section 7: Handling and Storage**

Conditions for safe handling	Do not heat above 176°C / 350°F during continuous use. Do not heat above 232°C /450°F.
Conditions for safe storage	Normal warehouse storage in cool, dry, well-ventilated area is satisfactory.
Specific End Use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.

**Section 8: Exposure Controls / Personal Protection**

Control Parameters	Contains no substances with occupational exposure limit values.
Exposure Controls	Normal ventilation is sufficient.
Eye protection	Wear safety glasses.
Skin Protection	Wear impervious gloves and clean body-covering clothing.
Respiratory protection	Respiratory protection is not required when using this product under normal conditions.

**Section 9: Physical Properties****Information on basic physical and chemical properties**

Appearance:	Solid Gray or Colored	Explosion Limits (Upper/Lower):	Not Established
Odor:	None	Flash Point:	> 300 °F
Odor Threshold:	Not established	Flammability:	flash point at or above 200°F
pH:	Not applicable (non-aqueous)	AutoIgnition Temperature:	Not established
Melting Point:	Not Established	Decomposition Temperature	Not established
Boiling Point:	Not Established	VaporPressure:	Not established
Relative Density:	0.065 -0.25 lb/in <sup>3</sup>	VaporDensity:	> 1
Solubility:	Insoluble	Evaporation Rate:	Not Established
Partition Coefficient:	Not established		
Viscosity:	Not applicable		

**Section 10: Stability and Reactivity**

Reactivity	No hazardous reactions if stored and handled as indicated.
Chemical Stability	Stable under normal handling and storage conditions.
Hazardous reactions	Hazardous polymerization does not occur
Conditions to Avoid	Exposure to elevated temperatures can cause product to decompose.
Materials to Avoid	Avoid contact with strong acids, strong bases, and strong oxidizers.
Hazardous decomposition Products	Possible combustion products include silicon dioxide (silica), tungsten, iron, carbon dioxide, and carbon monoxide.

**Section 11: Toxicology Information**

Acute Toxicity	
Oral Effects	No data available for acute oral effects.
Inhalation Effects	No data available for acute inhalation effects of this product.
Dermal Effects	No data available for acute dermal effects. Skin absorption is unlikely.
Skin corrosion/irritation	No data available regarding skin irritation/corrosion.
Serious eye damage/irritation	No data available regarding serious eye damage/irritation.
Respiratory or skin sensitization	No data available regarding respiratory or skin sensitization effects of this product.
Germ Cell Mutagenicity	No data available regarding mutagenic effects of this product.
Carcinogenicity	No relevant data found.
Reproductive Toxicity	No relevant data found.
Specific Target Organ Toxicity	
Single Exposure	No data available regarding specific target organ toxicity single exposure for powder.
Repeated Exposure	No data available regarding specific target organ toxicity repeated exposure.
Aspiration Hazard	No data available regarding aspiration hazards associated with this product.

**Section 12: Ecological Information**

Aquatic Toxicity	No data are available on the adverse effects of this material on the environment.
Persistence and degradability	No data are available for persistence and degradability.
Bioaccumulative potential	No data are available for bioaccumulative potential.
Mobility in Soil	No data are available for mobility in soil.
Other	Not known to have any adverse effect on the aquatic environment. It is insoluble and non-toxic.

**Section 13: Disposal Considerations**

General	Material may be sold for reclaim if no other contamination exists. Avoid disposal to sewers and local waterways. Dispose of contents/container in accordance with federal, state, and local regulations.
Used:	For material contaminated with hazardous materials, dispose of mixture as hazardous material according to local, state, and federal regulations.

**Section 14: Transport Information**

Air Transport:	Not Hazardous per IATA 2014
Ground Transport:	Not D.O.T. Hazardous
Water Transport:	Not Hazardous per IMDG 2012.

**Section 15: Regulatory Information**

US Federal Regulations	Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.
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**Section 16: Other Information**

Revision	9-Dec-16: Updated to GHS SDS format, including classification. Replaces 31-May-2013 revision.
SDS Prepared By:	NPO, a brand of Eichrom Technologies LLC
Trademark:	T-Flex® is a registered trademark of Eichrom Technologies LLC's NPO Brand.

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