

# MATERIAL SAFETY DATA SHEET

ISSUED DATE 4-1-93 REVISED DATE 6-15-12

CUSTOMER CODE \_\_\_\_\_

NO. \_\_\_\_\_

I. IDENTIFICATION			
MANUFACTURER'S NAME <b>Sherbrooke Metals Corporation</b>		EMERGENCY TELEPHONE NO. <b>(440) 942-3520 1-800-922-7437</b>	
ADDRESS <b>36490 Reading Avenue, Willoughby, Ohio 44094</b>			
CHEMICAL NAME AND SYNONYMS <b>Tungsten, Silver</b>		TRADE NAMES AND SYNONYMS <b>S50WS, S35WS, S20WS</b>	
C.A.S. NO. <b>NIF</b>		T.S.C.A. NO. <b>NIF</b>	CHEMICAL FAMILY <b>Elemental Metal Composite</b>
DEPARTMENT OF TRANSPORTATION	HAZARD CLASSIFICATION <b>NIF</b>		U.N. NO. <b>NIF</b>
	SHIPPING NAME <b>Tungsten, Silver</b>		

II. INGREDIENTS					
GRADE	INGREDIENT	%	TLV/TWA	PEC/TWA	C.A.S. NO.
S50WS	Tungsten	50	5 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup>	7440-33-7
	Silver	50	0.01 mg/m <sup>3</sup>		7440-22-4
S35WS	Tungsten	65	5 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup>	7440-33-7
	Silver	35	0.01 mg/m <sup>3</sup>		7440-22-4
S20WS	Tungsten	78	5 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup>	7440-33-7
	Silver	22	0.01 mg/m <sup>3</sup>		7440-22-4

NOTE: Silver is subject to the reporting requirements of Section 313 or SARA Title III.

III. PHYSICAL DATA			
MELTING POINT (°C.)	Tungsten Silver	3380° 962°	
VAPOR PRESSURE (mm Hg.)		N/A	PERCENT, VOLATILE BY VOLUME (%) N/A
VAPOR DENSITY (AIR-1)		N/A	EVAPORATION RATE (_____) N/A
SOLUBLE IN WATER		N/A	SPECIFIC GRAVITY H <sub>2</sub> O = 1 S50WS = 13.48 S35WS = 14.77 S20WS = 15.56
APPEARANCE AND ORDOR	Silver Colored		

IV. FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (METHOD USED) <b>N/A</b>		FLAMABLE LIMITS	Lel <b>N/A</b>
			Uel <b>N/A</b>
EXTINGUISHING MEDIA <b>Type C or type ABC Extinguisher</b>			
SPECIAL FIRE FIGHTING PROCEDURES <b>Use a self contained breathing apparatus with a full face mask in a pressure demand or positive pressure mode.</b>			
UNUSUAL FIRE AND EXPLOSION HAZARDS		<b>N/A</b>	

Ref. Registry of Toxic Effects of Chemical Substances, NIOSH, 1985-86; Dangerous Properties of Industrial Materials, 5th Ed., Van Nostrand Reinhold Co., 1979; Occupational Health Guidelines for Chemical Hazards, NIOSH/OSHA, 1981; OSHA Code of Federal Regulations, Labor #29, Revised July 1, 1987.

## V. HEALTH HAZARD INFORMATION

### EFFECTS OF OVEREXPOSURE:

**Silver:** Inhalation - argyria, a blue-gray discoloration of the skin, mucous membrane and eyes may result.  
Ingestion - generalized argyria may result. Skin - localized argyria from silver particles embedded during handling.  
Eyes - severe irritation or conjunctivitis may occur. Health hazards: discoloration may become permanent.

**Tungsten:** Low toxicity - nuisance dust. Inhalation - cough.  
Ingestion - none reported. Skin - none reported. Health hazards - acute bronchitis.

### CARCINOGENICITY:

	NTP	IARC	OSHA
W	No	No	No
Ag	No	No	No

### EMERGENCY AND FIRST AID PROCEDURES:

Remove victim to fresh air. Flush skin and eyes with water. For inhalation or ingestion, seek immediate medical assistance.

## VI. REACTIVITY DATA

**STABILITY:** Stable                      **HAZARDOUS POLYMERIZATION:** Will not occur

**INCOMPATIBILITY:**

**HAZARDOUS DECOMPOSITION PRODUCTS:** Melting may generate harmful conditions to avoid.

**CONDITIONS TO AVOID:**

## VII. SPILL OR LEAK PROCEDURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Scoop up large quantities. Use sweeping compound to remove the rest. Avoid creating airborne particles.

**WASTE DISPOSAL METHOD:** Tungsten - Silver can be recycled

## VIII. SPECIAL PROTECTIVE INFORMATION

**RESPIRATORY PROTECTION:** NIOSH approved cartridge respirator.

**VENTILATION:** Ventilate operations when producing dust or fumes.

**PROTECTIVE GLOVES:** Recommend hand protection when handling metals for prevention of cuts.

**EYE PROTECTION:** Safety glasses or goggles should be used.

## IX. SPECIAL PRECAUTIONS

**STORING AND HANDLING:** Store in a dry cool place.

**OTHER PRECAUTIONS:** Avoid generating dust or fumes.

### DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of the material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.