



**Southern Copper & Supply Company, Inc.**  
**875 Yeager Parkway • P.O. Box 570**  
**Pelham, Alabama 35124**  
**205-664-9440 • 800-289-2728 • Fax 205-664-1365**

## MATERIAL SAFETY DATA SHEET

Revised Date January 2, 2010

1. IDENTIFICATION		
Vendor: <b>Southern Copper &amp; Supply Company, Inc.</b>	Emergency Telephone No. <b>205-664-9440</b>	
Address <b>875 Yeager Parkway, Pelham, Alabama 35124</b>		
Chemical Name and Synonyms <b>Tungsten, Copper</b>	Trade Names and Synonyms <b>Sheralloy/Shercut, S1WC, S3WC, S5Wc, S10WC, S20WC, S30WC, S15WC, S40WC</b>	
C.A.S. No. <b>NIF</b>	T.S.C.A. No. <b>NIF</b>	Chemical Family <b>Elemental Metal Composite</b>
<b>DEPARTMENT OF TRANSPORTATION</b>	Hazard Classification <b>NIF</b>	U.N. No. <b>NIF</b>
	Shipping Name <b>Tungsten, Copper</b>	

II. INGREDIENTS				
Grade	Ingredient	%	TLV	C.A.S. No.
S1WC	Tungsten	56	5 mg/m <sup>3</sup> (review)	7440-33-7
	Copper	44	1 mg/m <sup>3</sup> (review)	7440-50-8
S3WC	Tungsten	68	5 mg/m <sup>3</sup> (review)	7440-33-7
	Copper	32	1 mg/m <sup>3</sup> (review)	7440-50-8
S5W	Tungsten	70	5 mg/m <sup>3</sup> (review)	7440-33-7
	Copper	30	1 mg/m <sup>3</sup> (review)	7440-50-8
S10WC	Tungsten	75	5 mg/m <sup>3</sup> (review)	7440-33-7
	Copper	25	1 mg/m <sup>3</sup> (review)	7440-50-8
S20WC	Tungsten	78	5 mg/m <sup>3</sup> (review)	7440-33-7
	Copper	22	1 mg/m <sup>3</sup> (review)	7440-50-8
S30WC	Tungsten	80	5 mg/m <sup>3</sup> (review)	7440-33-7
	Copper	20	1 mg/m <sup>3</sup> (review)	7440-50-8
S15WC	Tungsten	70	5 mg/m <sup>3</sup> (review)	7440-33-7
	Copper	30	1 mg/m <sup>3</sup> (review)	7440-50-8
S40WC	Tungsten	85	5 mg/m <sup>3</sup> (review)	7440-33-7
	Copper	15	1 mg/m <sup>3</sup> (review)	7440-50-8

<b>III PHYSICAL DATA</b>			
Melting Point (EC.)	Tungsten Copper	3380E 1085E	
Vapor Pressure (mm Hg.)		N/A	Percent, Volatile By Volume (%) N/A
Vapor Density (AIR01)		N/A	Evaporate Rate (_____) N/A
Soluble in Water		N/A	Specific Gravity H <sub>2</sub> O = 1 S1WC = 12.60    S3WC = 13.43 S5WC = 14.18    S10WC = 14.80 S30WC = 15.60    S15WC = 14.25 S20WC = 15.20    S40WC = 16.20
Appearance and Odor	Copper Colored, No Odor		

<b>IV. FIRE AND EXPLOSION HAZARD DATA</b>				
Flash Point (Method Used):	N/A	Flamable Limits	Lel	Uol
Extinguishing Media:	Type C or type ABC Extinguisher		N/A	N/A
Special Fire Fighting Procedures: Use a self contained breathing apparatus with a full face mask in a pressure demand or positive pressure mode.				
Unusual Fire and Explosion Hazards:    N/A				

<b>V. HEALTH HAZARD INFORMATION</b>				
Effects of Over exposure:				
Tungsten:	Low toxicity - nuisance dust. Ingestion - none reported.	Inhalation - cough Skin - none reported.	Health hazards - acute bronchitis.	
Copper:	Inhalation - cough, chills, general malaise, kidney dis-function. Eyes and skin - irritation and/or discoloring. Health hazards - chronic lung, liver or kidney damage. May aggravate or intensify symptoms or pre-existing anemia or pulmonary disease.		Ingestion - liver dis-function.	
Carcinogenicity:	NTP	IARC	OSHA	
	Tungsten	No	No	No
	Copper	No	No	No
Emergency First Aid Procedures: Remove victim to fresh air.    Flush skin eyes with water.    For inhalation or ingestion, seek immediate medical assistance.				

<b>VI. REACTIVITY DATA</b>	
Stability:    Stable	Hazardous Polymerization: Will Not Occur
Incompatibility	
Hazardous Decomposition Products:	Melting may generate harmful conditions to avoid.
Conditions to avoid:	

<b>VII. SPILL OR LEAK PROCEDURES</b>
Steps to be taken in case material is released or spilled: Scoop up large quantities. Use sweeping compound to remove the rest. Avoid airborne particles.
Waste Disposal Method: Tungsten-Copper can be recycled.

**VIII. SPECIAL PROTECTIVE INFORMATION**

Respiratory Protection: NIOSH approved cartridge respirator.

Ventilation: Ventilation operations when producing dust or fumes.

Protective Gloves: Recommended 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.

Ref: Registry of Toxic Effects of Chemical Substances. NIOSH, 1985-86; Dangerous Properties of Industrial Materials, 5<sup>th</sup> 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.

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