

CHEMICAL NAME AND SYNONYMS Tungsten, Copper		SAND SYNONYMS /Shercut, S1WC,	S3WC, S5WC,	S10WC, S20WC,	, S30WC, S15WC
C.A.S. NO.		T.S.C.A. NO.	•	CHEMICAL F	ramily ntal Metal Composite
	AZARD CLASSIFICA	ATION NIF		U.N. NO	D. NIF
TRANSPORTATION	HIPPING NAME	Tungsten,	Copper		

		II. INGREDIEN	IS	
GRADE	INGREDIENT	%	TLV	C.A.S. NO.
S1WC	Tungsten	56	5 mg/m³ (review)	7440-33-7
	Copper	44	1 mg/m³ (review)	7440-50-8
S3WC	Tungsten	68	5 mg/m³ (review)	7440-33-7
	Copper	32	1 mg/m³ (review)	7440-50-8
S5WC	Tungsten	70	5 mg/m³ (review)	7440-33-7
	Copper	30	1 mg/m³ (review)	7440-50-8
S10WC	Tungsten	75	5 mg/m³ (review)	7440-33-7
	Copper	25	1 mg/m³ (review)	7440-50-8
S20WC	Tungsten	78	5 mg/m³ (review)	7440-33-7
	Copper	22	1 mg/m³ (review)	7440-50-8
S30WC	Tungsten	80	5 mg/m³ (review)	7440-33-7
	Copper	20	1 mg/m³ (review)	7440-50-8
S15WC	Tungsten	70	5 mg/m³ (review)	7440-33-7
	Copper	30	1 mg/m³ (review)	7440-50-8

	W.R	HYSICAL DATA		2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1
MELTING POINT (°C.) Tungster Copper	3380° 1085°			4
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	N/A	1
VAPOR DENSITY (AIR-1)	N/A	EVAPORATION RATE ()	N/A	
SOLUABLE IN WATER	N/A	SPECIFIC GRAVITY H ₂ O = 1	S1WC = 12.60 S5WC = 14.18	S3WC = 13.43 S10WC = 14.80
APPEARANCE AND ORDOR	Copper Colored No order	51 <u>2</u> 511 15 41 14 11 1 1 1 2 5	S30WC = 15.60 S20WC = 15.20	S15WC = 14.2

FLASH POINT (METHOD USED	FLAMABLE LIMITS L	Lel N/A	Uel N/A
N/A			
EXTINGUISHING MEDIA Type C or type ABC Extinguisher			
SPECIAL FIRE FIGHTING PROCEDURES Use a self contained breathing apparatus with a full face mask in a	a pressure demand or positive pressure mode	e.	

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.

TH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE:

Tungsten:

Low toxicity - nuisance dust.

Ingestion - none reported.

Inhalation - cough.

Skin - none reported. Health hazards - acute bronchitis.

Copper:

Inhalation - cough, chills, general malaise, kidney disfunction.

Ingestion - liver disfunction.

Eyes and skin - irritant and/or discoloring.

Health hazards: chronic lung, liver or kidney damage. May aggravate or intensify symptoms or pre-existing anemia or

pulmonary disease.

CARCINOGENICITY:

Tungsten

NTP No

IARC No No

OSHA No

Copper

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.

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 - Copper 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.

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