Tungs	ter	n Alloy										
1 PRODUC		ID SUPPLIE	R IDENTIFI	CATIC	<u>DN</u>							
Product Na EA17M, EA17		-			, High Density 1, EA18.5M	Tungste	en, Heavy M	etal Tung	sten Alloy, s	scrap, EA17	,	
Chemical Na Iron (Fe), an					i), and Iron (F	e) or Co	pper (Cu), T	Tungsten	(W) with Nie	ckel (Ni),	<u>.</u>	
Supplier:	M	tanford Adv aterials -mail :	vanced			1 1 1 1	• •					
141		les@samat el : (949) 4(:	j.:			:.:		;	:.: :	
			ISTANCE	СНЕМ	TREC 800-42	1-0200					<u>.</u>	
and grindin				-	s and counte		· · · · ·				5	
-	5 qui	lis, l'aulatio	n shielding	, orar	iance compo	nents, a	ind high tei	inperatu	re tooling.			
2 HAZARD	S ID	ENTIFICAT	<u>ION</u>		nance compo quipment and		-	·	-	;		
Fragmentat Breathing h	<u>S ID</u> tion h nazar	ENTIFICAT azard: Alw d: Wet and	<u>ION</u> ayş wear sa	afety e	·	keep ma	achine guard	ls in place	2.			
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Fragmentat Breathing h respiratory p Skin: May c Ingestion: may cause g GHS Classif GHS Label f Signal Word Hazard Stat Precautiona <u>3 COMPOS</u> Ingredient: Tungsten Nickel	PS IDI tion h nazar protec ause Not r jastroi ficatio Elemo d: N// teme ary S SITIO	ENTIFICAT hazard: Alw d: Wet and tion. skin irritatio normally a ha intestinal eff on (29 CFR ents: A nts: N/A tatements: N/INFORM CAS#: 7440-33-7	ION vays wear sa dry grinding n after prole azard due to ects. 1910.1200 N/A N/A ATION ON %: ~88-98	afety en g may onged o the p O): N N O): N N	quipment and produce hazar or repeated ex hysical form of ot classified as tediastic as EDIENTS EC# : 231-143-9	keep ma dous du posure t the arti hazardo	Classification CLP: Carc. Sens. Cat. DSD: Carc R52-53	tion DSD netal (par ed under Cat. 2, S 1, Aquati . Cat. 3; I	e. lation contro t. of particulat dicle size >: DSD/CLP TOT RE Cat. ic Chronic C	ol and/or es or dust 1.5 μm) is 1, Skin at. 3 '23, R43,		
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Tungsten Alloy SAFETY DATA SHEET

4 FIRST AID MEASURES

General Measures: WHA sintered articles, exposure to high volumes of powder/dust is not anticipated under normal conditions and use. Subsequent operations such as grinding, melting or welding may produce potentially hazardous dust or fumes which can be inhaled or come in contact with the skin or eyes.

INHALATION: Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult. Seek medical attention.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

SKIN: Remove contaminated clothing, brush material off skin, wash affected area with soap and water. Seek medical attention if symptoms persist.

EYES: Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.

Most Important Symptoms/Effects, Acute and Delayed: WHA sintered articles, exposure to high volumes of powder/dust is not anticipated under normal conditions and use. Inhalation of powder or dust may cause mechanical eye and skin irritation or mild respiratory tract irritation. **Indication of Immediate Medical Attention and Special Treatment**: None known.

5 FIREFIGHTING MEASURES

Extinguishing Media: WHA sintered articles as provided are not a fire hazard. Use suitable extinguishing media for surrounding material and type fire.

Unsuitable Extinguishing Media: No information available.

Specific Hazards Arising from the Material: This product does not present fire or explosion hazards as shipped. Small chips, fine turnings and dust from processing may be ignitable. May emit metal oxide fumes under fire conditions.

Special Protective Equipment and Precautions for Firefighters: Will oxidize above 1300 degrees F. Full face, self-contained breathing apparatus and full protective clothing when necessary.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: WHA sintered articles as provided do not present hazards that require accidental release measures. However, wet or dry grinding of WHA sintered articles may produce hazardous dust or mist. Wear appropriate respiratory and protective equipment specified in section 8. Avoid dust formation. Avoid contact with skin and eyes. Avoid breathing dust or fume. Ventilate area if necessary.

Methods and Materials for Containment and Cleaning Up: Sweep or scoop up. Place in a closed container for further handling and disposal. Scrap can be collected for recycling.

Environmental Precautions: Do not allow to enter drains or to be released to the environment.

7 HANDLING AND STORAGE

Precautions for Safe Handling: Avoid creating dust. Provide adequate ventilation if dusts are created. See section 8 for information on personal protection equipment.

Conditions for Safe Storage: Store in a sealed container. Store in a cool, dry area. See section 10 for more information on incompatible materials.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:	OSHA/PEL:	ACGIH/TLV:				
Tungsten	5 mg/m ³	 5 mg/m ³	1 I I I I I I I I I I I I I I I I I I I			

Tungsten Alloy SAFETY DATA SHEET

ron E ngineering Cont i		re limit esta			posure limit			nal limite	Whenever		
possible the use of l		•					•				
exposure to airborn										l :::	
olow dust off clothir						5.		2	5		
Respiratory Prote	ction: If per	missible lev	els are	exceeded	, use NIOSI	l approved	l dust res	pirator.			:
Eye Protection: Sa	afety glasses				1 1						
Skin Protection: V	Vear imperm	eable gloves	s, prote	ective wor	k clothing a	s necessar	у.				
						н н н н					
PHYSICAL AND	CHEMICAL	PROPERT	<u>IES</u>								
Appearance:											
-	Solid in vario										
Color:	Silvery meta	allic, high co	pper al	lloys will h	ave a coppe	er sheen					
Odor:	Odorless										
Odor Threshold:	Not determi	ned									
oH:		N/A	11	1.1			1.1			1.1	
Melting Point:		No data									
Boiling Point:		No data									
lash Point:		N/A									
Evaporation Rate:		N/A									
Flammability:		No data									
Jpper Flammable		No data									
ower Flammable	Limit:	No data		:.:			:.:	1.1		:.:	
apor Pressure:		No data									
/apor Density:		N/A									
Relative Density (Specific Gra		[,] 17-19	g/cc	1.1		· . :			1.1	
Solubility in H ₂ O:		Insolub									
Partition Coefficie	=		NOT	determine	ea						
Autoignition Temp Decomposition Te		No data No data									
/iscosity:	inperature.	N/A									
riscosity.		19/7									
LO STABILITY AI	ND REACTI	VITY		1.1		:	1.1			:.:	
Reactivity: No data											
Chemical Stability		ler recomme	ended s	storage co	nditions.						
Possibility of Haza						. : .					
Conditions to Avo									· · · ·		
Incompatible Mat				- _							
Hazardous Decom			tal oxid	de fume.							
L1 TOXICOLOGI	CAL INFORM	MATION									
likely Routes of E	xposure: In	halation, sk	in, eye	es. Product	t as shipped	does not p	oresent a	n inhalatior	hazard;		
nowever subsequen											
Symptoms of Exp	osure: Fines	/dusts may	irritate	e skin and	eyes.						
Acute and Chronic	: Effects:										
Fungsten: No data			· • •	1.1			1.1		· · · ;	1.1	
Nickel: The most co	mmon harm	ful health ef	fect of	metallic n	ickel in hun	nans is an a	allergic sl	kin reaction	in those		
	nickal Alth	ough nickol	comno	unds are k	known huma	an carcinoc	iens. the	evidence s	logests that	-	
who are sensitive to	There Alth	ough nickei	compo	ando aro.						-	

Tungsten Alloy SAFETY DATA SHEET

Inhalation of large amo chronic iron poisoning a	-	se iron pneu	moconiosis	. Chronic ir	halation of	finely div	ided powde	er may caus	e	
diarrhea, pink urine, bla	ack stool, and				. –					
Acute Toxicity: No dat Carcinogenicity: Nick		reasonably a	nticipated	to be a hur	nan carcino	aen IAF	RC : 2B - po	ssibly		
carcinogenic to humans	A. A								1.1	
To the best of our know	ledge the che	mical, physi	cal and tox	icological c	haracteristi	cs of the s	substance a	are not fully	,	
known.										
1 I I I I I I I										
2 ECOLOGICAL INF										
cotoxicity: No data	ORMATION									
Persistence and Degr	adability: No	data	1.1	1.1	: • •	:.:		: • •	:.:	
Bioaccumulative Pote										
lobility in Soil : No da	ita									
Other Adverse Effects	s: No further r	elevant info	rmation av	ailable.		1.1			1.1	
2 DICDOCAL CONC										
13 DISPOSAL CONS				1						
Waste Disposal Meth	od:									
Vaste Disposal Methor Product: Dispose of in	od: accordance w	ith Federal,	State and	Local regula	ations.					
Vaste Disposal Mether Product: Dispose of in Packaging: Dispose of	od: accordance w in accordance	ith Federal, with Feder	State and al, State ar	Local regula nd Local reg	ations. Julations.					
Vaste Disposal Mether roduct: Dispose of in rackaging: Dispose of	od: accordance w	ith Federal, with Feder	State and	Local regula nd Local reg	ations.		111			
Vaste Disposal Mether Product: Dispose of in Packaging: Dispose of	od: accordance w in accordance	ith Federal, with Feder	State and al, State ar	Local regula nd Local reg	ations. Julations.					
Vaste Disposal Methor Product: Dispose of in Packaging: Dispose of A TRANSPORT INFO	od: accordance w in accordance ORMATION	ith Federal, e with Feder	State and al, State ar	Local regula nd Local reg	ations. Julations.	į.:	111			
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Vaste Disposal Metho roduct: Dispose of in Packaging: Dispose of <u>4 TRANSPORT INFO</u> hipping Regulations IN Number: IN Proper Shipping N ransport Hazard Cla Packing Group: farine Pollutant: <u>5 REGULATORY IN</u> SCA Listed: All compo	od: accordance w in accordance ORMATION : Not regulate N/A Name: N/A ss: N/A No FORMATION onents are list	ith Federal, e with Feder ed	State and al, State ar	Local regula nd Local reg	ations. ulations.		141 141	• • •		
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believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Stanford Advanced Materials makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on this information. Eagle Alloys Corporation shall not be held liable for any damages resulting from handling or from contact with the above product. Users should satisfy themselves that they have all current data relevant to their particular use.

Prepared by: Stanford Advanced Materials

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