Safety Data Sheet

SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product name.	: Ultra Shot and NUWTube Weld Metal
1.2. Relevant identified uses of the sul	ostance or mixture and uses advised against
Use of the substance/mixture	: Manufacturing
1.3. Details of the supplier of the safet	v data sheet
Harger	
301 Ziegler Drive	
Grayslake, IL 60030 T 847-548-8700 - F 847-548-8755	
1.4. Emergency telephone number No additional information available	
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
GHS-US classification	
Acute Tox. 4 (Oral) H302	
Acute Tox. 4 (Inhalation) H332	
Eye Irrit. 2AH319Aquatic Acute 1H400	
Aquatic Chronic 2 H411	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US) Hazard statements (GHS-US)	GHS07 GHS09 : Warning : H302 - Harmful if swallowed
	H319 - Causes serious eye irritation H332 - Harmful if inhaled H400 - Very toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
	P264 - Wash thoroughly after handling P270 - Do no eat, drink or smoke when using this product
	P271 - Use only outdoors or in a well-ventilated area
	P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P301+P312 - If swallowed, call a doctor if you feel unwell
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contained
	lenses, if present and easy to do. Continue rinsing
	P312 - Call a POISON CENTER/doctor if you feel unwell
	P330 - If swallowed, rinse mouth P337+P313 - If eye irritation persists: Get medical advice/attention
	P391 - Collect spillage
	P501 - Dispose of contents/container in accordance with local/regional/national/international
2.3. Other hazards	regulations.
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
No data available	
	ion on ingradianta
SECTION 3: Composition/informati	
3.1. Substances	
Not applicable	

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Name		Product identifier	%	GHS-US classification
Copper oxide (CuO)		(CAS No) 1317-38-0	60 - 100	Not classified
Aluminum		(CAS No) 7429-90-5	7 - 13	Not classified
Copper(I) oxide		(CAS No) 1317-39-1	1 - 10	Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal)
Copper		(CAS No) 7440-50-8	1 - 5	Not classified
Calcium silicide		(CAS No) 12737-18-7	0.1 - 3	Not classified
Calcium fluoride (CaF2)		(CAS No) 7789-75-5	0.1 - 3	Acute Tox. Not classified (Oral)
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures after inhalation	е	symptoms of lung irritation occur (co xposure area to fresh air immediately esuscitation. Keep affected person wa	/. If breathing has sto	pped, perform emergency
First-aid measures after skin contact	S	n case of contact, wash skin with pler hoes and launder before reuse. If ski ttention.		
First-aid measures after eye contact		n case of contact with dust, immediate ritation persists, get medical attentior		enty of water for at least 15 minutes
First-aid measures after ingestion	ir	ngestion of this product is highly unlik ngested and symptoms develop, do n ersonnel. Get medical attention imme	ot induce vomiting ex	cept on advice of competent medic
4.2. Most important symptoms and ef	fects, b	oth acute and delayed		
Symptoms/injuries after inhalation	e C h C E t	nhalation of dusts generated from this xposures to dusts generated from thi Occupational exposure studies with ha ypertension, and liver enlargement a Cu/m3. Repeated exposure to dusts m ipidemiological data has shown some ne development of Alzheimer's diseas npairment of cognitive function and m	s product may cause ave shown some asso t copper duct exposu- nay also have effects association of repea se. Other neurologica	irritation of the respiratory tract. ociation with obesity, arterial re levels ranging from 111 to 434 m on the central nervous system (CN ted exposure to aluminium dust an
Symptoms/injuries after skin contact	: N	lay cause mechanical irritation of the	skin.	
Symptoms/injuries after eye contact		lay cause mechanical irritaiton of the		
Symptoms/injuries after ingestion		lay be harmful if swallowed.	-)	
4.3. Indication of any immediate med	cal atte	ntion and special treatment neede	d	
No additional information available	ouratto		u	
SECTION 5: Firefighting measures	5			
5.1. Extinguishing media Suitable extinguishing media	lie	lse special powder foam (Extinguishe quid metal. This eliminates the source xtinguishing powder or dry sand will e	e of oxygen and extin	guishes the fire. Class D
Unsuitable extinguishing media		Vater.		
5.2. Special hazards arising from the	substar	ace or mixture		
Fire hazard			le aro ovothormic mix	turos which whon reacted produc
	h	Copper based welding/joining material ot molten materials at temperatures i nolten metals are best extinguished w	n excess of 2200 °C	and a localized release of smoke. I
Explosion hazard	: N	lone		
5.3. Advice for firefighters				
Protection during firefighting	: F	irefighters should wear full protective	gear.	
Special firefighting procedures	: If a th p q	the packaging materials were to be r pplication of water in a heavy continu ne substances. Water should be appli ackaging materials have been burnt t uantities of extinguishing powder (Cla re and effectively control it.	made combustible be lous stream is recomi ied from a safe distar through then the imm	mended before the fire can spread ace with extinguishing hose. If the ediate and direct application of larg

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Spilled material may produce a dust hazard if not handled correctly. Wear appropriate protective equipment- coveralls, gloves and eye protection. Use non-conductive and non-static cleaning gear. Never smoke when handling exothermic materials.

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6.1.2. For emergency res	•		
No additional information available	able		
6.2. Environmental pred	cautions		
Avoid release to the environme	ent.		
6.3. Methods and mater	rial for containment	and cleaning up	
For containment	:	Recover the product by vacuuming, s	shovelling or sweeping.
Methods for cleaning up :		Contain and collect spilled materials using sand or other inert materials. Contain spillages. Residue should be cleaned up using a high efficiency particulate (HEPA) filter vacuum or wet clean up. Dispose of waste in accordance with local, state and federal regulations.	
6.4. Reference to other	sections		
No additional information available	able		
SECTION 7: Handling a	and storage		
7.1. Precautions for saf	e handling		
Precautions for safe handling	:	Follow all usage instructions when we	orking with this product.
7.2. Conditions for safe	storage, including	any incompatibilities	
Storage conditions	:		eat and direct sunlight. Exothermic materials, i.e. welding a tally been exposed to moisture should not be used. These stes.
7.3. Specific end use(s))		
Manufacturing			
SECTION 8: Exposure	controls/persor	nal protection	
8.1. Control parameters	-		
Copper (7440-50-8)			
USA ACGIH	ACGIH TWA (mg	/m³)	0.2 mg/m ³
USA OSHA	OSHA PEL (TWA	,	1 mg/m ³
034 0314	OSHA FEE (TWA	(ing/ins)	1 mg/m²
Aluminum (7429-90-5)			
USA ACGIH	ACGIH TWA (mg	/m³)	1 mg/m³
USA OSHA	OSHA PEL (TWA	.) (mg/m3)	5 mg/m ³
8.2. Exposure controls	•		
Appropriate engineering control	uls ·	Local exhaust and general ventilation	must be adequate to meet exposure standards.
Hand protection		•	loves is recommended when using product in welding
		process.	······································
Eye protection	:	with "flash" or light from reaction, esp	aution should be taken by user to avoid direct eye contact ecially during the ignition of the materials.
Skin and body protection	:		bination with protective gloves and eyewear) to prevent othermic welding. Use welding overalls/tunics buttoned ful
Respiratory protection	:		the applicable exposure limits, use NIOSH approved
SECTION 9: Physical a	nd chemical pr	operties	
9.1. Information on bas			
Physical state		Solid	
Color	:	Silver	
Odor	:	Odorless	
Odor threshold	:	No data available	
рН	:	No data available	
Relative evaporation rate (buty	(lacetate=1) :	No data available	
Melting point	:	No data available	
Freezing point	:	No data available	
Boiling point	:	No data available	
Flash point	:	No data available	
Self ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
Elammability (colid gas)		No data available	

Flammability (solid, gas)

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Specific gravity	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Avoid direct unintentional exposures to high temperatures (i.e., keep below the ignition temperature). Avoid direct contact with open flames, high energy sources and sparks. Direct contact of water on the heated materials may lead to the generation of dangerous flammable gases.

10.5. Incompatible materials

Avoid contact with water, acids, bases and oxidising agents. Do not attempt to ignite the materials with any other ignition source other than the starting material or an approved electronic ignition device. Use of flammable burner fuels or safety matches or direct flames strongly prohibited.

10.6. Hazardous decomposition products

When heated to decomposition, may release metal oxide fumes. May slowly generate flammable or dangerous gases upon contact with large amounts of water.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Harmful if swallowed. Harmful if inhaled.

Copper(I) oxide (1317-39-1)		
LD50 oral rat	470 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	5 mg/l/4h	
Calcium fluoride (CaF2) (7789-75-5)		
LD50 oral rat	4250 mg/kg	
ATE (oral)	4250.000 mg/kg bodyweight	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	

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SECTION 12: Ecological information 12.1. Toxicity Ecology - general : Very toxic to aquatic life with long lasting effects. Copper (7440-50-8) LC50 fishes 1 0.0088 - 0.0156 mg/l (Exposure time: 36 h - Species: Pimephales promelas) EC50 Daphnia 1 0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) EC50 ther aquatic organisms 1 0.0426 - 0.0535 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static] EC50 ther aquatic organisms 2 0.031 - 0.054 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static] EC50 Daphnia 1 0.51 mg/l (Exposure time: 96 h - Species: Daphnia magna) EC50 Other aquatic organisms 2 0.031 - 0.054 mg/l (Exposure time: 96 h - Species: Daphnia magna) EC50 Other aquatic organisms 1 65 mg/l (Exposure time: 96 h - Species: Daphnia magna) EC50 other aquatic organisms 2 0.021 - 0.037 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus) EC50 other aquatic organisms 2 0.021 - 0.037 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential Copper(I) oxide (1317-33-1) BCF fish 1 (does not generally accumulate) 12.4. Mobility in soil No additional informat		
Ecology - general : Very toxic to aquatic life with long lasting effects. Copper (7440-50-8) LC50 fishes 1 0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas) EC50 Daphnia 1 0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) EC50 other aquatic organisms 1 0.0426 - 0.0535 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [stat LC50 fish 2 < 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
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SECTION 13: Disposal considerations 13.1. Waste treatment methods		
13.1. Waste treatment methods		
Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regu		
SECTION 14: Transport information		
In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA		
14.1. UN number		
Not applicable		
14.2. UN proper shipping name		
Not applicable		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
Copper (7440-50-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)		
SARA Section 313 - Emission Reporting 1.0 %		
Copper oxide (CuO) (1317-38-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Aluminum (7429-90-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on SARA Section 313 (Specific toxic chemical listings) SARA Section 313 - Emission Reporting 1.0 % (dust or fume only)		
Copper(I) oxide (1317-39-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Calcium fluoride (CaF2) (7789-75-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
15.3. US State regulations		
Copper (7440-50-8)		

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Copper (7440-50-8)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Aluminum (7429-90-5)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Full text of H-phrases:

Acute toxicity (inhalation) Category 4
Acute toxicity (oral) Category 4
Acute toxicity (dermal) Not classified
Acute toxicity (oral) Not classified
Hazardous to the aquatic environment - Acute Hazard Category 1
Hazardous to the aquatic environment - Chronic Hazard Category 2
Serious eye damage/eye irritation Category 2A
Harmful if swallowed
Causes serious eye irritation
Harmful if inhaled
Very toxic to aquatic life
Toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.