OSHA - Meets 29 CFR 1910.1200 Standards			MIS HAZARD RA	TINGS			
	HEALTH FLAMMABILITY PHYSICAL HAZ	· · · · · · · · · · · · · · · · · · ·	1 0 = INSIGN 0 1 = SLIGH 0 2 = MODE	NIFICANT T		3 = HIGH 4 = EXTRE	EME
	TITIOICALTIAZ		SPORTATION INFO		ON		
The ULTIMATE CONNECTION for QUALITY PRODUCTS and SERV	PROPER SHIP HAZARD CLAS IDENTIFICATIO	PING NAME: Not Regulated SS / PKG GRP: Not regulated REF		REF:	• •		
SECTION 1-PRODUCT/COM	IPANY IDENTIFI						
IDENTITY (AS USED ON LABEL AND LIST) CP Weld Metal		<u> </u>	······		Р	age 1 of 2	<u> </u>
MANUFACTURER'S NAME Thermoweld			Y TELEPHONE NU 00) 535-5053 Outs		(352) 32	3-3500	
ADDRESS (NUMBER, STREET, P.O. BOX)			E NUMBER FOR IN			0-0000	
4102 South 74th East Ave.		(800) 558-					
(CITY, STATE AND ZIP CODE) Tulsa, OK 74145		DATE PREP SUPERSED		per 22, 20	004		
SECTION 2 - HAZARDOUS INC	GREDIENTS / ID						
HAZARDOUS COMPONENTS		%	OSHA PEL		H TWA	SARA	RQ
(SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS#	(OPTIONAL)	PPM MG/M3	PPM	MG/M3	TITLE III	LBS
Cuprous oxide (a)	1317-39-1	60 - 90	1			Yes	
Copper (a,b)	7440-50-8	7 - 13	1.0		1.0	Yes	50
Aluminum (fume or dust) (a)	7429-90-5	7 - 13	15		10	Yes	
Planning and Community Right-To-Know Act of 1986 b) The Comprehensive Environmental Response, Co	and of 40 CFR 372. Impensation, and Liability A	act (CERCLA) ha	s notification requirem	ents for re	eleases or s		ncy
(a) A "Yes" in the SARA TITLE III column in Section 2 Planning and Community Right-To-Know Act of 1986 (b) The Comprehensive Environmental Response, Co environment of the Reportable Quantity (RQ for this m	and of 40 CFR 372. Impensation, and Liability A	act (CERCLA) ha	s notification requirem	ents for re	eleases or s		ncy
Planning and Community Right-To-Know Act of 1986 (b) The Comprehensive Environmental Response, Co	and of 40 CFR 372. Impensation, and Liability A	act (CERCLA) ha	s notification requirem	ents for re	eleases or s		ncy
Planning and Community Right-To-Know Act of 1986 (b) The Comprehensive Environmental Response, Co	and of 40 CFR 372. Impensation, and Liability A Inixture > 24000 lbs) or grea	act (CERCLA) ha	s notification requirem	ents for re	eleases or s		ncy
Planning and Community Right-To-Know Act of 1986 (b) The Comprehensive Environmental Response, Coenvironment of the Reportable Quantity (RQ for this management of the Reportable Quantity) SECTION 3 - HEALTH HAZARI ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPO	and of 40 CFR 372. Impensation, and Liability Anixture > 24000 lbs) or greation. Description:	oct (CERCLA) ha ter amounts, if <	s notification requirem 4 μ diameter, accordin And First AID PROCE	nents for reng to 40 C	eleases or s	pills to the	
Planning and Community Right-To-Know Act of 1986 (b) The Comprehensive Environmental Response, Coenvironment of the Reportable Quantity (RQ for this management) SECTION 3 - HEALTH HAZARI	and of 40 CFR 372. Impensation, and Liability Anixture > 24000 lbs) or greated anixture > 24000 lbs. D DATA DSURE Imm mixing, spraying, ory tract. Contains ch require a NIOSH	oct (CERCLA) ha ter amounts, if <	s notification requirem 4 μ diameter, accordii	nents for reng to 40 C	eleases or s	pills to the	
Planning and Community Right-To-Know Act of 1986 (b) The Comprehensive Environmental Response, Coenvironment of the Reportable Quantity (RQ for this material of the Reportable Quantity) SECTION 3 - HEALTH HAZARI ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPORTANCE OF ENTRY - SIGNS AND SYMPTOMS OF EXPORTANCE OF COMMUNICATION: Breathing airborne particles or dust from the sanding, grinding, etc. may cause irritation to respirate substances which are considered nuisance dusts which approved respirator when airborne particulate exceed	and of 40 CFR 372. compensation, and Liability Anixture > 24000 lbs) or greated anixture > 24000 lbs. DATA DSURE com mixing, spraying, comy tract. Contains ch require a NIOSH s maximum allowable	EMERGENCY Remove conta	s notification requirem 4 μ diameter, accordin And First AID PROCE	DURES; if sympto	eleases or specific production of the specific p	pills to the	al ater;
Planning and Community Right-To-Know Act of 1986 (b) The Comprehensive Environmental Response, Community (RQ for this management of the Reportable Quantity (RQ	and of 40 CFR 372. compensation, and Liability Anixture > 24000 lbs) or greated anixture > 24000 lbs. DATA DSURE com mixing, spraying, comy tract. Contains ch require a NIOSH s maximum allowable	EMERGENCY Remove contal attention.	s notification requirem 4 μ diameter, accordin AND FIRST AID PROCE ted person to fresh air	DURES; if sympto	eleases or specific production of the specific p	seek medicoap and warsists, seek	al ater; k medi
Planning and Community Right-To-Know Act of 1986 (b) The Comprehensive Environmental Response, Coenvironment of the Reportable Quantity (RQ for this management	and of 40 CFR 372. Impensation, and Liability Anixture > 24000 lbs) or greated > 24000 lbs) o	EMERGENCY Remove contal aunder contal attention. Remove contal while holding of Give two glass	s notification requirem 4 µ diameter, according 4 µ diameter AND FIRST AID PROCESTED FIRST	DURES; if symptone reuse; if with clean persists	d area with s irritation pe	seek medic oap and warsists, seek	al al ninute

MATERIAL SAFETY DATA SHEET IDENTITY (AS USED ON LABEL AND LIST) Page 2 of 2 **CP Weld Metal** Date: November 22, 2004 SECTION 4 - FIRE FIGHTING MEASURES FLASH POINT (METHOD USED) NFPA RATING FLAMMABLE LIMITS Not applicable None LEL: Not applicable UEL: Not applicable EXTINGUISHING MEDIA Use dry sand, graphite, dolomite, sodium chloride, water spray or chemical foam. SPECIAL FIRE FIGHTING PROCEDURES Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermoweld copper base welding/joining materials are exothermic mixtures, which when reacted, produce hot molten materials with temperatures in excess of 4000° F and a localized release of smoke. The materials are not explosive, ignition temperatures are in excess of 850° F for starting material and 1750° F for base material. They are not shock sensitive, nor are they subject to spontaneous ignition. Should the material be accidentally ignited, the immediate and direct application of large volumes of water will effectively retard the spread of fire and control it. Large amounts of dense, dusty smoke will be liberated during an accidental fire. SECTION 5 - ACCIDENTAL RELEASE MEASURES STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Confine and segregate product for reuse; place material into approved containers for disposal; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions; refer to SARA Title III, Section 313, 40 CFR 372 for reporting requirements. Do not discharge into lakes, ponds, streams or public waters. SECTION 6 - HANDLING AND STORAGE PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Storage of Thermoweld Exothermic materials should be in a clean dry area and restricted to access by authorized personnel only. Do not subject to rough handling or physical damage, nor excessive vibration. Store in accordance with "This Side Up" labels. Protect from weather and moisture. DO NOT USE PRODUCTS THAT HAVE BEEN EXPOSED TO MOISTURE. Before using Thermoweld Exothermic Process, personnel should be trained by a Thermoweld representative. Read and understand the instruction sheet packaged with the mold, and observe all general and safety instructions. SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH approved respirator designed to remove airborne particulate present in excess of maximum allowable concentrations due to secondary operations such as mixing, spraying, sanding, buffing, etc. Refer to 29 CFR 1910.134 or European Standard EN 149 for regulations. VENTILATION LOCAL EXHAUST: SPECIAL: None Recommended MECHANICAL (GENERAL): OTHER: None PROTECTIVE GLOVES: Neoprene or rubber gloves. EYE PROTECTION: Protective eyeglasses or chemical safety goggles. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES **BOILING POINT** SPECIFIC GRAVITY (WATER = 1) Approximately 6.0 Not applicable VAPOR PRESSURE (MM Hg) Hq Not applicable Not applicable VAPOR DENSITY (AIR = 1) **EVAPORATION RATE (WATER = 1)** Not applicable Not applicable SOLUBILITY IN WATER % VOLATILE (BY WEIGHT) Insoluble None APPEARANCE AND ODOR

Gray / silver granules, characteristic odor SECTION 9 - STABILITY AND REACTIVITY

STABILITY UNSTABLE: CONDITIONS TO AVOID: Avoid generating airborne dust STABLE: XXX

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of fire, smoke, oxides of carbon; fumes of copper and aluminum. Small amounts of fluoride fume or hydrofluoric fume may be released under ignition.

HAZARDOUS POLYMERIZATION MAY OCCUR: CONDITIONS TO AVOID: None

WILL NOT OCCUR: XXX

SECTION 10 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Do not flush to sanitary sewer or waterway. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.