

**MATERIAL SAFETY DATA SHEET**  
**FILLER METALS AND WELDING RODS**

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

SECTION I	
Manufacturer's Name: THERMACOTE WELCO COMPANY	Emergency Telephone No. 704-739-6421
Address: HWY. 161 YORK ROAD POB 112 KINGS MOUNTAIN, NORTH CAROLINA	
Trade Name: PASTEWELD	

SECTION II - HAZARDOUS INGREDIENTS					
Paints, Preservatives & Solvents	WT %	TLV (Units) Mg/M3	Alloys and Metallic Coatings	WT %	TLV (Units) Mg/M3
Solvents: Monoethanolamine Hcl	6.8	6	Alloys: 50 Tin/50 Lead (dust)	75	0.2
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					
(Dry) Zinc Chloride (fumes)				9.9	1
Ammonium Chloride (fumes)				2.5	10

SECTION III - PHYSICAL DATA			
Boiling Point (°F)	212	Specific Gravity (H2O=1) 70°F	4.27
Vapor Pressure (mm Hg.)	6.73	Percent Volatile by Volume (%)	35
Vapor Density (Air = 1)	0.9	Evaporation Rate (= 1)	N/A
Solubility in Water	Insoluble		
Appearance and Odor - Smooth gray paste with no characteristic odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (Method Used)	300°F TCC	Flammable Limits	Le1 Ue1
Extinguishing Media	Water fog, Foam CO2		
Special Fire Fighting Procedures	None		
Unusual Fire and Explosion Hazards	May release toxic fumes if involved in a fire.		

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value: 12.92
Effects of Overexposure: May cause burns. Fumes may irritate eyes or respiratory passages. Long term may affect pulmonary function and/or cause metal fume fever
Emergency & First Aid Procedures: Remove contaminated clothing. Flush skin or eyes with plenty of water for at least 15 minutes. Call a physician. Ingestion: Call a physician immediately, advise of Section II, this document. Give large quantities of milk/water. Inhalation: Remove from affected area, be advised of "metal fever" and "Zinc shocks."

Carcinogenicity: NTP -No; IARC -No; OSHA -No.

SECTION VI - REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibility (Materials to Avoid):	NONE		
Hazardous Decomposition Products:	Hydrogen Chloride, Zinc Oxide		
Hazardous Polymerization	May Occur		Conditions to Avoid:
	Will Not Occur	X	

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Avoid contact with skin, eyes, or clothing. Avoid breathing mist or fumes.
Waste Disposal Method: Flush with water to chemical sewer or isolated protected dumping in accordance with Federal, State and Local Regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (specify type)	None for normal use.
Ventilation:	Local Exhaust: Maintain adequate ventilation.
	Mechanical (general):
Protective Gloves: Rubber gloves	Eye Protection: Safety glasses/ Chemical safety goggles.
Other Protective Equipment:	Equipment normally used in soldering operation.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Store in closed containers at ambient conditions.
Other Precautions: Wash thoroughly after handling.

NOTE: Reference is directed, without endorsement or recommendation, to the ANSI Standard Safety in Welding & Cutting Z49.1-1973 (American Welding Society Publication Z49.1-1973).