

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME <b>Thermacote Welco</b>		EMERGENCY TELEPHONE NO. <b>.704=739-6421</b>
ADDRESS (Number, Street, City, State, and ZIP Code) <b>Hwy 161 York Road, Kings Mountain, NC 28086</b>		
CHEMICAL NAME AND SYNONYMS <b>Zinc, Aluminum, Copper</b>		TRADE NAME AND SYNONYMS <b>380 Solder</b>
CHEMICAL FAMILY	FORMULA <b>Zi, Al, Cu</b>	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL <b>Zinc</b>	<b>93</b>	
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS <b>Aluminum</b>	<b>4.25</b>	
OTHERS			<b>Copper</b>	<b>2.75</b>	<b>1mg/m<sup>3</sup></b>
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	<b>NA</b>	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	<b>6.7</b>
VAPOR PRESSURE (mm Hg.)		PERCENT, VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ =1)	
SOLUBILITY IN WATER	<b>Insol</b>	Melting Point	<b>720°F</b>
APPEARANCE AND ODOR <b>Metallic-- no odor</b>			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) <b>Non-flammable</b>	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA <b>CO<sub>2</sub> or dry chemical</b>			
SPECIAL FIRE FIGHTING PROCEDURES <b>None</b>			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

## SECTION V - HEALTH HAZARD DATA

## THRESHOLD LIMIT VALUE

Zinc oxide fume 5.0 mg/m<sup>3</sup>

## EFFECTS OF OVEREXPOSURE

Excessive inhalation of the freshly formed fume may produce character symptoms known as metal fume fever or "zinc shakes". Only formed fume is potent.

## EMERGENCY AND FIRST AID PROCEDURES

Usually not important. Remove to fresh air - bed rest - recovery complete within 24-48 hours.

## SECTION VI - REACTIVITY DATA

## STABILITY

UNSTABLE

## CONDITIONS TO AVOID

STABLE

X

## INCOMPATIBILITY (Materials to avoid)

May react with acids

## HAZARDOUS DECOMPOSITION PRODUCTS

At extreme heat, zinc oxide fume may be evolved.

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

Any normal clean-up procedure is applicable.

## WASTE DISPOSAL METHOD

Be cognizant of potential water pollution problems.

NOTE: This material may have value on a recycled basis.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

## RESPIRATORY PROTECTION (Specify type)

U. S. Bureau of Mines approved respirators.

## VENTILATION

LOCAL EXHAUST

SPECIAL

See below

MECHANICAL (General)

OTHER

## PROTECTIVE GLOVES

Not required

## EYE PROTECTION

Recommended - not required

## OTHER PROTECTIVE EQUIPMENT

It is recommended that operations involving zinc or zinc oxide dust or fume be performed under local exhaust ventilation.

## SECTION IX - SPECIAL PRECAUTIONS

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

NONE

## OTHER PRECAUTIONS

n/a