

# 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 THERMACOTE WELCO	EMERGENCY TELEPHONE NO. 704-739-6421
ADDRESS (Number, Street, City, State, and ZIP Code) HWY 161, YORK ROAD, KINGS MTN., N.C. 28086	
CHEMICAL NAME AND SYNONYMS Bare Welding Rod	TRADE NAME AND SYNONYMS TUF KUT
CHEMICAL FAMILY	FORMULA

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL WC/Co	60	Avg.
CATALYST			ALLOYS Cu/Zn/Ni	40	Avg.
VEHICLE			METALLIC COATINGS Ni plate		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
NONE					

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.) WC/Co Cu/Zn/Ni	5500°F 3850°F	SPECIFIC GRAVITY (H <sub>2</sub> O=1) WC/Co Cu/Zn/Ni	13.5/14.5 8.20
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	None		
APPEARANCE AND ODOR	Silver/None		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	Let	Uel
EXTINGUISHING MEDIA	N/A			
SPECIAL FIRE FIGHTING PROCEDURES	N/A			
UNUSUAL FIRE AND EXPLOSION HAZARDS	N/A			

**SECTION V - HEALTH HAZARD DATA**

<b>THRESHOLD LIMIT VALUE</b> As a welding rod per se -- no hazard
<b>EFFECTS OF OVEREXPOSURE</b> During welding, becomes hazardous without ventilation
Fumes may cause dizziness and/or nausea
<b>EMERGENCY AND FIRST AID PROCEDURES</b> Move to well ventilated area, consult a physician

**SECTION VI - REACTIVITY DATA**

<b>STABILITY</b>	UNSTABLE		<b>CONDITIONS TO AVOID</b>
	STABLE	X	
<b>INCOMPATIBILITY (Materials to avoid)</b> N/A			
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b> N/A			
<b>HAZARDOUS POLYMERIZATION</b>	MAY OCCUR		<b>CONDITIONS TO AVOID</b>
	WILL NOT OCCUR	X	

**SECTION VII - SPILL OR LEAK PROCEDURES**

<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b>
N/A
<b>WASTE DISPOSAL METHOD</b>
N/A

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

<b>RESPIRATORY PROTECTION (Specify type)</b> None with adequate ventilation under normal circumstances		
<b>VENTILATION</b>	LOCAL EXHAUST Exhaust ventilators	SPECIAL
	MECHANICAL (General) Fume collectors	OTHER
<b>PROTECTIVE GLOVES</b> Welding gloves	<b>EYE PROTECTION</b> Welding goggles, or helmet over safety glasses	
<b>OTHER PROTECTIVE EQUIPMENT</b> *See below		

**SECTION IX - SPECIAL PRECAUTIONS**

<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING</b>
N/A
<b>OTHER PRECAUTIONS</b>
*See Below