

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OSHA No. 44-R-1117

Date Prepared:  
11/25/85

# 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 HWY 161, YORK ROAD, KINGS MOUNTAIN, N.C. 28086		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS 3-HSS
CHEMICAL FAMILY	FORMULA	

## SECTION II HAZARDOUS INGREDIENTS

		OTHER	WT.	TLV (units) mg/m <sup>3</sup>
		C	0.87	Inert
		Si.	0.2	
		Mn.	0.3	5
		Cr.	4.3	1
		Mo.	5.0	15
		V	1.9	0.5
		W	6.4	5
		FE Balance		1

\*The term "hazardous" should be interpreted as a term required and defined in the OSHA Hazard Communications Standard (29CFR 1910.1200) and does not necessarily imply the existence of any hazard.

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.) N/A	SPECIFIC GRAVITY (H <sub>2</sub> O=1)
VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY VOLUME (%)
VAPOR DENSITY (AIR=1)	EVAPORATION RATE (_____ =1)
SOLUBILITY IN WATER	
APPEARANCE AND ODOR	

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	SEE SECTION II
EFFECTS OF OVEREXPOSURE	During or after welding. Faintness, possible nausea, dazzle
EMERGENCY AND FIRST AID PROCEDURES	Remove to fresh air, Call physician

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR		NOT APPLICABLE

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
WASTE DISPOSAL METHOD
NOT APPLICABLE

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)		Weld fume respirator or airline respirator for confined space or where exposures are above TLV
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES		EYE PROTECTION
welders protective gloves		colored absorptive glasses
OTHER PROTECTIVE EQUIPMENT		
Welding helmet and protective clothing such as leather apron		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Avoid humidity and shocks
OTHER PRECAUTIONS
Arc and sparks could be source of ignition of combustible products.