

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 <i>Thermacote Welco Company</i>	EMERGENCY TELEPHONE NO. <i>1-704-739-6421</i>
ADDRESS <i>Hwy 161, York Road, Kings Mountain, North Carolina 28086</i>	
CHEMICAL NAME AND SYNONYMS <i>A.W.S. R-CI</i>	TRADE NAME AND SYNONYMS <i>Welco 111, Kastweld</i>
CHEMICAL FAMILY	FORMULA

IMPORTANT! This section covers the materials from which this product is manufactured. The fumes and gases produced during welding with normal use of this product are covered in Section V.

Material (CAS No.)	Weight %	Exposure Limit	
		1984/85 TLV-TWA	(OSHA PEL)
Iron	93.0%	10Mg/M3	15
Carbon	3.0-4.0	Inert	
Silicon	2.0-3.0%	10Mg/M3	15
Manganese	0.5-1.0%	-	
Phosphorus	0.50%	-	
Sulphur	0.20%	-	

*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 ₂ O=1)	N/A
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	<i>Grey, cast rod</i>		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Let	Uet
EXTINGUISHING MEDIA <i>CO₂, dry chemical or sand</i>			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	<i>see section II</i>
EFFECTS OF OVEREXPOSURE	<i>Acute: SKIN and EYE irritation resulting from dust during grinding and/or metal oxides during brazing</i>
	<i>Respiratory irritation may also occur along with minor irritation to nasal passages.</i>
	<i>Insure adequate ventilation and remove to fresh air if irritation occurs.</i>
	<i>For Eyes - flush with water repeatedly for 10-15 minutes</i>
EMERGENCY AND FIRST AID PROCEDURES	

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)	<i>alkalis</i>		
HAZARDOUS DECOMPOSITION PRODUCTS	<i>May form metal oxides</i>		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR		

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	<i>Sweep up, use normal clean-up for solids</i>
WASTE DISPOSAL METHOD	<i>Normal in compliance with local and Federal regulations</i>

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	<i>Not necessary in properly ventilated area</i>	
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	<i>suggested</i>
OTHER		
PROTECTIVE GLOVES	<i>optional when brazing</i>	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT	<i>suitable for oxy/acetylene welding</i>	
	<i>Normal work clothing suitable for welding</i>	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
OTHER PRECAUTIONS	