

DATE PREPARED 11/25/8.

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

Form Approved  
OSHA No. 44-R1387

# 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 COMPANY		EMERGENCY TELEPHONE NO. 704-739-6421
ADDRESS YORK ROAD, HWY. 161 POB 112 KINGS MOUNTAIN, NORTH CAROLINA 28086		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS WELCO 900 FLUX
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)
Total Fluoride as F		2.5 mg/m <sup>3</sup> ACGIH as fumes

\*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)	2.15
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	Moderate		
APPEARANCE AND ODOR	White powder with no characteristic odor.		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uet
EXTINGUISHING MEDIA	N/A				
SPECIAL FIRE FIGHTING PROCEDURES	N/A				
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE				

**SECTION V - HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE	61.3 mg/m <sup>3</sup> per TLVs for mixture in ACGIH
EFFECTS OF OVEREXPOSURE	
SWALLOWING	Can cause chemical burn to digestive system.
SKIN ABSORPTION	Not known as a skin absorbent.
INHALATION	Irritation to respiratory system.
SKIN CONTACT	Possible dermatitis and possibly a chemical burn.
EYE CONTACT	Irritation to eyes, and possible burn of eye surfaces.
EMERGENCY AND FIRST AID PROCEDURES	
SWALLOWING	Contains a salt of lithium. Induce vomiting. Call a physician.
SKIN	Promptly flush with water. If rash develops call a physician.
INHALATION	Remove to fresh air.
EYES	Flush with water at least 15 minutes. Get medical attention.

**SECTION VI - REACTIVITY DATA**

STABILITY	UNSTABLE		CONDITIONS TO AVOID	NONE
	STABLE	XXX		
INCOMPATIBILITY (Materials to avoid)				
STRONG NITRIC AND SULFURIC ACIDS.				
HAZARDOUS DECOMPOSITION PRODUCTS				
In-presence of water and heat, HCL and HF will be given off.				
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	NONE
	WILL NOT OCCUR			

**SECTION VII - SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
If molten, allow to solidify or if a dry powder, then sweep-up and dispose to a chemical waste area. Flush area with water to chemical sewer.
WASTE DISPOSAL METHOD
Dispose of in accordance with all Federal, state and local regulations.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION (Specify type)		
If the work station is not properly ventilated, use a NIOSH approved mask.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
Maintain air flow away from user, so that the TLV is never exceeded.		
PROTECTIVE GLOVES	SEE BELOW	EYE PROTECTION
		Chemical safety glasses.
OTHER PROTECTIVE EQUIPMENT		
Regular protection equipment as normally used in braze/welding operation.		

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Wash hands thoroughly after handling. Keep flux dry.
OTHER PRECAUTIONS
Material readily absorbs water. Keep flux container sealed. Remove and wash contaminated clothing before re-use.