

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 MTN. N.C. 28086		
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS 8 WELCO 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)
ZINC CHLORIDE FUMES 7647-85-7		1 mg/m ³ ACGIH
AMMONIUM CHLORIDE 12125-02-9		10 mg/m ³ ACGIH as fumes
Sodium Fluoride 7681-49-4		5.5 mg/m ³ ORM-B

*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.)	212	SPECIFIC GRAVITY (H ₂ O=1)	2.38
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	SLIGHT		
APPEARANCE AND ODOR	White Paste with no characteristic odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) N/A	FLAMMABLE LIMITS	L _{FL}	U _{FL}
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES Metal halide fumes produced.			
UNUSUAL FIRE AND EXPLOSION HAZARDS NONE			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
EFFECTS OF OVEREXPOSURE
SWALLOWING: CHEMICAL BURNS TO DIGESTIVE SYSTEM.
SKIN ABSORPTION: NONE CURRENTLY KNOWN.
INHALATION: IRRITATION TO RESPIRATORY SYSTEM.
SKIN CONTACT: DERMATITIS, POSSIBLY A CHEMICAL BURN.
EYE CONTACT: IRRITATION TO EYES AND POSSIBLE BURN OF EYE SURFACES.
EMERGENCY AND FIRST AID PROCEDURES
SWALLOWING: DO NOT INDUCE VOMITING. CALL A PHYSICIAN AT ONCE.
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
	STABLE	XX	NONE
INCOMPATIBILITY (Materials to avoid)			
Strong nitric and sulfuric acids.			
HAZARDOUS DECOMPOSITION PRODUCTS			
In presence of water and heat; HCL & HF			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	XX	NONE

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
IF MOLTEN ALLOW TO SOLIDIFY, CONTAIN, ABSORB, SWEEP-UP, DISPOSE. AVOID DUST. 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
PROTECTIVE GLOVES		EYE PROTECTION
SEE BELOW		CHEMICAL SAFETY GLASSES.
OTHER PROTECTIVE EQUIPMENT		
REGULAR PROTECTIVE EQUIPMENT NORMALLY USED IN SOLDERING OPERATION		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
KEEP FLUX STORED UNDER AMBIENT CONDITIONS.
OTHER PRECAUTIONS
MATERIAL READILY ABSORBS MOISTURE. KEEP FLUX CONTAINER SEALED. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.