



# MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: July 1, 1985

THERMACOTE WELCO

HIGHWAY 161, YORK ROAD,  
KINGS MOUNTAIN, N.C. 28086

I. IDENTIFICATION				
PRODUCT NAME:		700 Flux	(345)	
CHEMICAL NAME: AND SYNONYMS:		N/A N/A	CAS NAME: CAS #:	N/A N/A
DEPARTMENT OF TRANSPORTATION	HAZARD CLASSIFICATION			
	None			
SHIPPING NAME		N/A		
II. HAZARDOUS INGREDIENTS				
MATERIAL: CAS NAME	CAS#	TLV	HAZARD	
Zinc chloride fumes	7646-85-7	1 mg/m <sup>3</sup>	ACGIH	
Total fluoride as F	---	2.5 mg/m <sup>3</sup>	ACGIH as fumes	
Remaining ingredients are proprietary and are classified as NON-HAZARDOUS				
III. PHYSICAL DATA				
BOILING POINT 760 mm Hg °F	N/A	FREEZING POINT	N/A	
SPECIFIC GRAVITY (H <sub>2</sub> O = 1) @72°F	2.15	VAPOR PRESSURE at 20°C mmHg	N/A	
VAPOR DENSITY (air = 1)	N/A	SOLUBILITY IN WATER	Slight	
PERCENT VOLATILES BY VOLUME	N/A	EVAPORATION RATE (Butyl Acetate = 1)	N/A	
APPEARANCE AND ODOR	White powder with no characteristic odor.			
While we believe all information presented herein is accurate and reliable, the data are not to be taken as a guarantee or representation of any kind for which THERMACOTE assumes legal responsibility. They are offered solely for your consideration, investigation and verification.				

EMERGENCY PHONE NUMBER: 704-739-6421

#### IV. HEALTH HAZARD DATA

##### TLV AND SOURCE REFERENCES

7.268 mg/m<sup>3</sup> per TLVs for mixture in ACGIH

##### EFFECTS OF ACUTE OVEREXPOSURE

SWALLOWING	Can cause chemical burn to digestive system.
SKIN ABSORPTION	Not known as a skin absorbent.
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	Contains zinc chloride and a salt of lithium. Immediately call a physician, and advise.
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.

#### V. SPECIAL PROTECTION INFORMATION

##### RESPIRATORY PROTECTION

If the work station is not properly ventilated, use a NIOSH approved mask.

##### VENTILATION

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.

## VI. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT TCC °F	N/A			
FLAMMABLE LIMITS IN AIR, % by volume	LOWER	N/A	UPPER	N/A
EXTINGUISHING MEDIA	N/A			
SPECIAL FIRE FIGHTING PROCEDURES	Metal halide fumes produced.. Use approved equipment.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None			

## VII. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	None
UNSTABLE	STABLE		
	XXX		
INCOMPATIBILITY (materials to avoid)		Strong nitric and sulfuric acids.	
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS		In presence of water and heat, HCl and HF will be given off.	
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID	None
May Occur	Will Not Occur		
	XXX		

## VIII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF 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.

## 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.