

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 RD., KINGS MTN., N.C. 28086		
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS SILPASTE	
CHEMICAL FAMILY	FORMULA 5 oz 250 Flux + 3 tr/oz silver mesh	

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)
<u>FLUX</u>			
Boric Acid #1303-86-2	5.0	10.0	15.0
Fluorides #Not listed *			
*(may decompose to HF #7664-39-3)	25.0	2.5	2.5
Borates #1303-96-4	25.0	1.0	0
<u>201CD Silver (Powdered Mesh)</u>			
Silver #7440-22-4	45	_____	.01 mg/m ³
Copper #7440-50-8	15	_____	.1 mg/m ³
Cadmium #7440-43-9	24	_____	.05 mg/m ³
Zinc #7440-66-6	16	_____	5.0 mg/m ³

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)	1.12
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	Appreciable		
APPEARANCE AND ODOR	Silver-colored Paste		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Low	High
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

Cadmium poisoning - Ingestion and inhalation will cause vomiting, diarrhea, headache, dizziness, fever, chest pains and breathlessness.

EMERGENCY AND FIRST AID PROCEDURES

Keep patient warm and obtain immediate medical attention.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) N.A.			
HAZARDOUS DECOMPOSITION PRODUCTS Cadmium vapors while brazing.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID Avoid overheating while brazing to
	WILL NOT OCCUR	X	minimize cadmium vaporization.

SECTION VII - SPILL OR LEAK PROCEDURES N.A.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

WASTE DISPOSAL METHOD

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

In confined space use air supplied respirator.

VENTILATION	LOCAL EXHAUST	X	SPECIAL	N.A.
	MECHANICAL (General)	X	OTHER	
PROTECTIVE GLOVES	X	EYE PROTECTION	X	
OTHER PROTECTIVE EQUIPMENT Provide good ventilation and avoid overheating while brazing.				

SECTION IX - SPECIAL PRECAUTIONS N.A.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

OTHER PRECAUTIONS