

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

Form Approved  
OSHA No. 44-11387

Date Prepared: 11/25/

# 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 MOUNTAIN, N.C. 28086		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS SILV-R-FOS 15
CHEMICAL FAMILY ALLOY OF SILVER, COPPER, PHOSPHORUS	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)
AG CAS #7440-22-4 (2,4)	15%	.01 mg/M <sup>3</sup> as AG.
Cu. CAS # 7440-50-8 (2,4)	Balance	.1 mg/M <sup>3</sup> as Cu.
P " # 7723-14-0 (2,4,5)	5%	.1 mg/m <sup>3</sup> as P.

\*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.)	Solidus Liquidus	1190°F. 1475°F.	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	8.45
VAPOR PRESSURE (mm Hg.)	Room Temp.	None	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)			EVAPORATION RATE (_____ = 1)	
SOLUBILITY IN WATER		insoluble		
APPEARANCE AND ODOR	Gray, None			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) NON Flammable	FLAMMABLE LIMITS	L <sub>51</sub>	U <sub>51</sub>
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

### SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE  
See Sec. II 0.1 mg/M<sup>3</sup>

EFFECTS OF OVEREXPOSURE

EMERGENCY AND FIRST AID PROCEDURES  
Remove victim from exposure to fumes - call physician

### SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

### SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
No hazard from spills

WASTE DISPOSAL METHOD  
Has reclaim value as scrap due to silver and copper content

### SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)  
In confined space use air supplied respirator.

VENTILATION	LOCAL EXHAUST	SPECIAL
	X	N.A.
	MECHANICAL (General)	OTHER
	X	

PROTECTIVE GLOVES	EYE PROTECTION
X	X

OTHER PROTECTIVE EQUIPMENT  
Provide good ventilation and avoid overheating while brazing

### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  
Wear eye protection and avoid contact with skin if skin exposed to fumes

PRECAUTIONS TO BE TAKEN IN USE AND APPLICATIONS

OTHER PRECAUTIONS