

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

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

Revised: 10/5/84

## SECTION I

MANUFACTURER'S NAME THERMACOTE WELCO COMPANY		EMERGENCY TELEPHONE NO. 704-739-6421
ADDRESS (Number, Street, City, State, and ZIP Code) HWY 161 YORK ROAD POB 112 KINGS MOUNTAIN NORTH CAROLINA 28086		
CHEMICAL NAME AND SYNONYMS N.A.		TRADE NAME AND SYNONYMS WELCO 101CD
CHEMICAL FAMILY Alloy of Silver, Copper, Zinc and Cadmium		FORMULA N.A.

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			Ag - CAS #7440-22-4 (2, 4)	35	.01 Mg as Ag M <sup>3</sup>
CATALYST			Cu - " #7440-50-8 (2, 4)	26	.1 Mg as Cu M <sup>3</sup>
VEHICLE			Cd - " #7440-43-9 (1, 2, 3, 4, 7) C	18	.05 Mg as Cd M <sup>3</sup>
SOLVENTS			Zn - " #7440-66-6 (5)	21	5 Mg as Zn M <sup>3</sup> Oxide Fu
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N.A.	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	9.29
VAPOR PRESSURE (mm Hg.)	N.A.	PERCENT VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR = 1)	N.A.	EVAPORATING RATE (_____ = 1)	N.A.
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA N.A.

FLASH POINT (Method used)	FLAMMABLE LIMITS	Let	Uet
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES At high temperatures this alloy could melt and continuous heating could produce metal vapor.			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

(Continued on reverse side)

### 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

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

### SECTION VII - SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**  
No hazards 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.

<b>VENTILATION</b>	LOCAL EXHAUST	X	SPECIAL	N.A.
	MECHANICAL (General)	X	OTHER	
<b>PROTECTIVE GLOVES</b>		X	<b>EYE PROTECTION</b>	
			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**