

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

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

SECTION I	
MANUFACTURER'S NAME THEMACOTE WELCO COMPANY	EMERGENCY TELEPHONE NO. 704-739-6421
ADDRESS (Number, Street, City, State, and ZIP Code) HWY. 161, YORK ROAD P.O. BOX 112 KINGS MOUNTAIN NORTH CAROLINA 28086	
CHEMICAL NAME AND SYNONYMS N.A.	TRADE NAME AND SYNONYMS WELCO 401
CHEMICAL FAMILY Alloy of Silver, Copper, Zinc, Nickel	FORMULA N.A.

SECTION II - HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Unit)	ALLOYS	%	TLV (Unit)
PIGMENTS		N/A	Ag CAS #7440-22-4 (2,4)	40	0.1 mg/as Ag ^{M3}
CATALYST		N/A	Cu " #7440-50-8 (2,4)	30	1 mg/as Cu ^{M3}
VEHICLE		N/A	Zn " #7440-66-6 (5)	28	5 mg/as Zn ^{M3}
SOLVENTS		N/A	Ni " #7440-02-0 (1,2,3,5,7) C	2	1 mg/as Ni ^{M3}
ADDITIVES		N/A			
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Unit)

SECTION III - PHYSICAL DATA			
BOILING POINT	N.A.	SPECIFIC GRAVITY (H ₂ O = 1)	9.03
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 COLOR	Yellow, none		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (_____ used)	Not flammable	FLAMMABLE LIMITS	
EXTINGUISHING MEDIA	N/A		
SPECIAL FIRE FIGHTING PROCEDURES	At high temperatures this alloy could melt and continuous heating could produce metal vapors.		
UNUSUAL FIRE AND EXPLOSION HAZARDS			

(Continued on reverse side)

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
See Section II
EFFECTS OF OVEREXPOSURE

EMERGENCY AND FIRST AID PROCEDURES
Remove victim from exposure of fumes - Call physician.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

COMPATABILITY (Materials to avoid) N.A.

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)

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Storage does not involve hazards.

OTHER PRECAUTIONS