

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<br>THERMACOTE-WELCO COMPANY                                                                        |  | EMERGENCY TELEPHONE NO.<br>704-739-6421 |
| ADDRESS (Number, Street, City, State, and ZIP Code)<br>HWY. 161 YORK ROAD POB 112 KINGS MOUNTAIN, NORTH CAROLINA 28086 |  |                                         |
| CHEMICAL NAME AND SYNONYMS<br>N.A.                                                                                     |  | TRADE NAME AND SYNONYMS<br>WELCO 201CD  |
| CHEMICAL FAMILY<br>Alloy of Silver, Copper, Zinc, Cadmium                                                              |  | FORMULA                                 |

## SECTION II - HAZARDOUS INGREDIENTS

| PAINTS, PRESERVATIVES, & SOLVENTS                     | % | TLV (Units) | ALLOYS AND METALLIC COATINGS         | %  | TLV (Units)                        |
|-------------------------------------------------------|---|-------------|--------------------------------------|----|------------------------------------|
| PIGMENTS                                              |   |             | Ag - CAS #7440-22-4 (2, 4)           | 45 | .01 Mg as Ag M <sup>3</sup>        |
| CATALYST                                              |   |             | Cu - " #7440-50-8 (2, 4)             | 15 | .1 Mg as Cu M <sup>3</sup>         |
| VEHICLE                                               |   |             | Cd - " #7440-43-9 (1, 2, 3, 4, 7) 7C | 24 | .05 Mg as Cd M <sup>3</sup>        |
| SOLVENTS                                              |   |             | Zn - " #7440-66-6 (5)                | 16 | 5 Mg as Zn M <sup>3</sup> Oxide Fu |
| ADDITIVES                                             |   |             |                                      |    |                                    |
| 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) | 9.34 |
| 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 | LeI | UeI |
| EXTINGUISHING MEDIA                |                  |     |     |
| SPECIAL FIRE FIGHTING PROCEDURES   |                  |     |     |
| 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>                            | UNSTABLE       |   | CONDITIONS TO AVOID                                               |
|                                             | STABLE         | X |                                                                   |
| <b>INCOMPATIBILITY (Materials to avoid)</b> |                |   |                                                                   |
| N.A.                                        |                |   |                                                                   |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS</b>     |                |   |                                                                   |
| Cadmium vapors while brazing.               |                |   |                                                                   |
| <b>HAZARDOUS<br/>POLYMERIZATION</b>         | MAY OCCUR      |   | CONDITIONS TO AVOID                                               |
|                                             | WILL NOT OCCUR | X | Avoid overheating while brazing to minimize cadmium vaporization. |

### SECTION VII - SPILL OR LEAK PROCEDURES N.A.

**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    |
| <b>OTHER PROTECTIVE EQUIPMENT</b>                             |                      |   |                       |         |      |
| Provide good ventilation and avoid overheating while brazing. |                      |   |                       |         |      |

### SECTION IX - SPECIAL PRECAUTIONS N.A.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

**OTHER PRECAUTIONS**