

**MATERIAL SAFETY DATA SHEET**

CODE: M/L136

This Material Safety Data Sheet complies with the U.S. OSHA Hazard Communication Standard 29CFR 1910.1200

**PRODUCT: TARAMET STERLING® WATER SOLUBLE FLUX**

NFPA/HMIS HAZARD CODES: HEALTH: 1/1 FIRE: 0/0 REACTIVITY: 0/0 SPECIAL: NA

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**SECTION I IDENTIFICATION**

**MANUFACTURERS NAME:** Taracorp  
1690 Lowery Street  
Winston-Salem, NC 27101  
336-777-8600

**ISSUE DATE:** October 2004

**SECTION II COMPOSITION INFORMATION**

| <u>INGREDIENT</u> | <u>CAS NO.</u> | <u>US OSHA PEL</u> | <u>%</u> |
|-------------------|----------------|--------------------|----------|
| Hydrochloric Acid | 7647-01-0      | 5PPM               | 3-6      |
| Zinc Chloride     | 7646-85-7      | 1PPM               | 1-3      |

**SECTION III HEALTH HAZARDS**

**EYES:** Flush with water for 10 minutes. Obtain immediate medical attention.

**SKIN:** Wash thoroughly with water. If irritation develops, obtain medical attention.

**ACUTE INHALATION:** Remove to fresh air or administer oxygen. Obtain immediate medical attention.

**INGESTION:** Give water or milk. Obtain immediate medical attention.

**PRIMARY ROUTES OF ENTRY:** Fume inhalation, ingestion, skin and eyes.

**SYMPTOMS OF OVEREXPOSURE:** Salivation, coughing, choking, chills, may cause weight loss, brittle bones, anemia, and stiff joints.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE:** Any weakness of the lungs, kidneys or liver will be aggravated.

**CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN:** None

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** N/A

**FLAMMABLE LIMITS:** N/A

**EXTINGUISHING MEDIA:** Not needed

**AUTO IGNITION TEMPERATURE:** None

**SPECIAL FIRE FIGHTING PROCEDURES:** None

**UNUSUAL FIRE & EXPLOSION HAZARDS:** Fluoride fumes

**SECTION V ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED:**  
Clean up paste and dilute/flush remaining materials with excess of water.

**SECTION VI HANDLING AND STORAGE**

**STORAGE REQUIREMENT:** Store in plastic containers in cool area, away from heat. Do not store in glass or porcelain container. Wash thoroughly after use.

**HANDLING PRECAUTIONS:** Safe precautionary practices - avoid spills and exposure to skin and fume.

## SECTION VII CONTROL MEASURES

|   |                                |
|---|--------------------------------|
| RESPIRATORY PROTECTION (TYPE):          | NIOSH Approved Respirator      |
| MECHANICAL (GENERAL):                   | Yes                            |
| EYE PROTECTION:                         | Safety glasses/goggles         |
| PROTECTIVE GLOVES:                      | Recommended                    |
| OTHER PROTECTIVE CLOTHING OR EQUIPMENT: | Optional to user's preference. |
| VENTILATION:                            | Yes                            |
| LOCAL EXHAUST:                          | Yes                            |

## SECTION VIII PHYSICAL AND CHEMICAL CHARACTERISTICS

|                         |       |                                     |                       |
|-------------------------|-------|-------------------------------------|-----------------------|
| BOILING POINT:          | 104°C | SPECIFIC GRAVITY (WATER=1):         | .97                   |
| VAPOR PRESSURE (mm Hg): | N/A   | PERCENT VOLATILE BY VOLUME:         | 64%                   |
| VAPOR DENSITY (AIR=1):  | N/A   | EVAPORATION RATE (BUTYL ACETATE=1): | 0.6                   |
| MELTING POINT:          | 0°C   | SOLUBILITY IN WATER:                | Moderate              |
| REACTIVITY IN WATER:    | None  | APPEARANCE AND ODOR:                | White, odorless paste |

## SECTION IX STABILITY AND REACTIVITY

|                                   |  |
|-----------------------------------|--|
| STABILITY:                        | Product is stable  |
| (CONDITIONS TO AVOID):            | Metals   |
| INCOMPATIBILITY:                  | Alkaline, strong oxidizing or reducing materials, cyanides or combustible materials. |
| HAZARDOUS DECOMPOSITION PRODUCTS: | HCl, zinc chloride, zinc oxide, ammonium fume  |
| HAZARDOUS POLYMERIZATION:         | Will not occur   |
| (CONDITIONS TO AVOID):            | Excessive heat or cold   |

## SECTION X TRANSPORTATION AND DISPOSAL CONSIDERATIONS

|                              |   |
|------------------------------|---|
| D.O.T. PROPER SHIPPING NAME: | Non-hazardous                                 |
| WASTE DISPOSAL METHOD:       | Dispose of in accordance with EPA regulations |

## SECTION XI OTHER INFORMATION

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