

**MATERIAL SAFETY DATA SHEET**

CODE: M/L1113

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

**PRODUCT: BERNZOMATIC 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**

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

**ISSUE DATE:** February 25, 2005

**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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