

**MATERIAL SAFETY DATA SHEET**

CODE: M/L 137

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

**PRODUCT: LENOX® SILVER BRAZING FLUX**

NFPA/HMIS HAZARD CODES: HEALTH: 2/2\* FIRE: 0/0 REACTIVITY: 0/0 SPECIAL: N/A

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

**SECTION I IDENTIFICATION**

**SUPPLIER NAME:** LENOX® **ISSUE DATE:** October, 2007  
 1690 Lowery Street  
 Winston-Salem, NC 27101  
**INFORMATION PHONE:** 336-777-8600

**SECTION II COMPOSITION INFORMATION**

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>US OSHA PEL</u>	<u>%</u>
Potassium Fluoroborate	12228-71-6	2.5 mg/m <sup>3</sup>	30-45
Potassium Tetraborate	1332-77-0	5.0 mg/m <sup>3</sup>	15-25
Boric Acid	10043-35-3	10 mg/m <sup>3</sup>	15-30
Potassium Fluoroborate	14075-53-7	2.5 mg/m <sup>3</sup>	7-15

PEL = PERMISSABLE EXPOSURE LIMIT

**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. Obtain immediate medical attention.  
**INGESTION:** If patient is fully conscious, give two glasses of water and induce vomiting. 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:** None  
**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 fumes.

## SECTION VII CONTROL MEASURES

**RESPIRATORY PROTECTION (TYPE):** NIOSH Approved Respirator  
**MECHANICAL (GENERAL):** Yes  
**EYE PROTECTION:** Safety glasses/goggles  
**PROTECTIVE GLOVES:** Recommended, NIOSH approved  
**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Rubber apron, or equivalent  
**VENTILATION:** Yes  
**LOCAL EXHAUST:** Yes

## SECTION VIII PHYSICAL AND CHEMICAL CHARACTERISTICS

<b>BOILING POINT:</b>	N/A	<b>SPECIFIC GRAVITY (WATER=1):</b>	1.6
<b>VAPOR PRESSURE (mm Hg):</b>	N/A	<b>PERCENT VOLATILE BY VOLUME:</b>	30%
<b>VAPOR DENSITY (AIR=1):</b>	N/A	<b>EVAPORATION RATE (BUTYL ACETATE=1):</b>	0.3
<b>MELTING POINT:</b>	500 C	<b>SOLUBILITY IN WATER:</b>	Moderate
<b>REACTIVITY IN WATER:</b>	None	<b>APPEARANCE AND ODOR:</b>	White, odorless paste

## SECTION IX STABILITY AND REACTIVITY

**STABILITY:** Product is stable  
**(CONDITIONS TO AVOID):** Excess heat  
**INCOMPATIBILITY:** Glass or porcelain  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Fluorides with high heat  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**(CONDITIONS TO AVOID):** N/A

## 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

**VOC CONTENT:** None

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