

# MATERIAL SAFETY DATA SHEET

DATE REVISED: January 29, 2004

**Product Name:** Ottoflux Paste Flux  
**Manufacturer:** Ott Frei 126 3rd Street, Oakland, CA 94604  
**Emergency Phone Number: 1-800-424-9300 (CHEMTREC)**  
**Other Information Calls:** (510)-832-0355

**To the Purchaser:** This MSDS contains important environmental, health, and toxicology information for your employees who have ordered this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

**H.M.I.S. Information:**      **HEALTH = 2**      **FLAMMABILITY = 0**      **REACTIVITY = 0**

## SECTION I -- IDENTIFICATION

**Common Name:** Superior No. 6      **Chemical Family:** Silver Brazing Paste Flux  
**CAS Number:** NA      **Chemical Name:** NA  
**Formula:** See Below

## SECTION II - COMPOSITION INFORMATION

<u>Components</u>	<u>CAS Number</u>	<u>%</u>	<u>OSHA PEL</u>
Potassium Tetraborate	1332-77-0	20-40	5.0PPM
Potassium Fluoroborate	14075-53-7	25-50	2.5PPM

Unlisted percentages are non-hazardous stabilizers, activators, and water. None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

## SECTION III - HEALTH HAZARDS

### EMERGENCY AND FIRST AID PROCEDURES

**Inhalation:** Remove to Fresh Air  
**Eyes:** Flush with Water for 10 Minutes. Call Physician.  
**Skin:** Wash Thoroughly with Water.  
**Ingestion:** If Patient is Fully Conscious, Give Large Amounts of Water. Obtain Medical Attention Immediately.

**Primary Routes of Entry into Body:** 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 Exposure:** Any Weakness of the Lungs, Kidneys or Liver will be Aggravated.

**Chemical Listed as Carcinogen or Potential Carcinogen:** None

**OSHA Permissible Exposure Limit (PEL):** 2.5PPM

**ACGIH Threshold Limit Value (TLV):** 2.5PPM

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flash Point: (Method Used):** None  
**Extinguishing Media:** Not Needed  
**Special Fire Fighting Procedures:** Normal Caution When Using Chemicals.  
**Unusual Fire and Explosion Hazards:** Fluorides  
**Flammable Limits:** Lower-NA, Upper-NA  
**Auto Ignition Temperature:** None

#### SECTION V - ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Spilled:** Clean up Paste and Flush Remaining Material with Lots of Water.

#### SECTION VI - STABILITY AND REACTIVITY

**Stability:** Product is Stable  
**Incompatibility:** Glass or Porcelain  
**Hazardous Decomposition Products:** Fluorides with High Heat.  
**Hazardous Polymerization:** Will Not Occur  
**(Conditions to Avoid):** Excess Heat  
**(Conditions to Avoid):** NA

#### SECTION VII - CONTROL MEASURES

**Ventilation:** Yes  
**Protective Gloves:** Recommend, NIOSH Approved  
**Mechanical (General):** Yes  
**Respiratory Protection (Type):** NIOSH Approved Respirator.  
**Other Protective Clothing or Equipment:** Rubber Apron  
**Local Exhaust:** Yes  
**Eye Protection:** Safety Goggles

#### SECTION VIII - HANDLING AND STORAGE

**Precautions to be Taken in Handling and Storage:** Store in Plastic Containers in Cool Area. Do Not Store in Glass or Porcelain Container. Wash Thoroughly After Use.  
**Work/Hygienic Practices:** Avoid Contact with Skin, Eyes and Clothing.  
**Other Precautions:** Keep Container Away From Excessive Heat.

#### SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** NA  
**Vapor Pressure (mm Hg):** NA  
**Vapor Density (Air = 1):** NA  
**Melting Point:** 500°C  
**Reactivity in Water:** None  
**Specific Gravity (Water = 1):** 1.6  
**Percent Volatile by Volume:** 30%  
**Evaporation Rate (Butyl Acetate = 1):** 0.3  
**Solubility in Water:** Moderate  
**Appearance and Odor:** White, Odorless Paste

#### SECTION X - TRANSPORTATION AND DISPOSAL CONSIDERATIONS

**D.O.T. Proper Shipping Name:** Non-Hazardous  
**Identification Number:** NA  
**Type D.O.T Label Required Information:** NA  
**Waste Disposal Method:** Dispose in Accordance with EPA Regulations.  
**Hazard Class:** NA  
**Packing Group:** NA

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