



**MATERIAL SAFETY DATA SHEET**  
**SUPERIOR No. 601**

DATE REVISED: January 1, 2009



**Product Name:** Superior No. 601  
**Manufacturer:** Superior Flux & Mfg. Co. 6615 Parkland Blvd. Cleveland OH, 44139  
**Emergency Phone Number:** 1-800-424-9300 (CHEMTREC)  
**Other Information Calls:** (440) 349-3000

**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. 601      **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>OHA PEL</u>
Potassium Fluoroborate	12228-71-6	30-45	2.5 mg/m <sup>3</sup>
Potassium Tetraborate	1332-77-0	15-25	5.0 mg/m <sup>3</sup>
Boric Acid	10043-35-3	15-30	10 mg/m <sup>3</sup>
Potassium Fluoroborate	14075-53-7	7-15	2.5 mgm <sup>3</sup>

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 Two Glasses of Water and Induce Vomiting. 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):** 2.5 mg/m<sup>3</sup>  
**ACGIH Threshold Limit Value (TLV):** 2.5 mg/m<sup>3</sup>

*Superior manufactures quality fluxes. Our business is solving problems.*



**Superior Flux & Mfg. Co.**

6615 Parkland Blvd. • Cleveland, OH 44139 • Phone: 440-349-3000 • Fax: 440-349-3003  
[www.superiorflux.com](http://www.superiorflux.com) • e-mail: [info@superiorflux.com](mailto:info@superiorflux.com)

#### 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  
**Fire and Explosion Hazards:** Fluorides  
**Flammable Limits:** Lower-NA, Upper-NA  
**Auto Ignition Temperature:** None  
**Unusual:**

#### 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:** 500C  
**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  
**This Product is RoHS Compliant.**  
**Hazard Class:** NA  
**Packing Group:** NA

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are NO WARRANTIES, NO REPRESENTATIONS, AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.

MSDS - Superior No. 601 p. 2/2

The information contained herein is based on data considered to be accurate and is intended for use by persons having technical skills at their own discretion and risk. Since conditions of use are outside of Superior Flux & Mfg. Co.'s control, we cannot assume liability for results obtained or damage incurred due to misuse, nor can we assume customer liability.

**Superior manufactures quality fluxes. Our business is solving problems.**



**Superior Flux  
& Mfg. Co.**

6615 Parkland Blvd. • Cleveland, OH 44139 • Phone: 440-349-3000 • Fax: 440-349-3003  
[www.superiorflux.com](http://www.superiorflux.com) • e-mail: [info@superiorflux.com](mailto:info@superiorflux.com)