

# FLUX

## Silver Solder Flux, Superior

(29 CFR PART 1910:1200)

### Material Safety Data Sheet

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.

Manufacturer's Name: **SUPERIOR FLUX & MFG. CO.**  
Address: **95 ALPHA PARK, CLEVELAND, OHIO 44143**

QUICK IDENTIFIER (In Plant Common Name)

**SUPERIOR NO. 6**

Issue Date: **NOVEMBER 16, 1990**

Emergency Telephone No.: **216/461-3315**

Other Information Calls: **SAME**

Date Prepared: **NOVEMBER 16, 1990**

Signature of Person Responsible for Preparation: *Bruce B. Borvath*

#### SECTION 1 - IDENTITY

Common Name: (used on label) (Trade Name & Synonyms) **SUPERIOR NO. 6 SILVER SOLDER FLUX**

Cas No. **NA**

Chemical Name: **NA**

Chemical Family: **SILVER BRAZING PASTE FLUX**

Formula: **SEE BELOW**

#### SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	CAS#	% BY WT.	Threshold Limit Value (unit)
POTASSIUM FLUOBORATE	14075-53-7	25-50%	2.5 MG/M3 AS FLUORIDE
*POTASSIUM TETRABORATE	1332-77-0	20-40%	NA
*WATER	7732-18-5	15-30%	NA

\*NON-HAZARDOUS SUBSTANCE

INFORMATION FOR MIXTURES IS BASED ON CONSTITUENT MSDS WHICH ARE AVAILABLE UPON REQUEST. (Minus Proprietary Trade Names)

#### SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Point: <b>NA</b>	Specific Gravity (H <sub>2</sub> O = 1): <b>1.6</b>	Vapor Pressure (mm Hg): <b>NA</b>
Percent Volatile by Volume (%): <b>30</b>	Vapor Density (Air = 1): <b>NA</b>	Evaporation Rate (WATER = 1): <b>0.2</b>
Solubility in Water: <b>MODERATE</b>	Reactivity in Water: <b>NONE</b>	
Appearance and Odor: <b>WHITE ODORLESS PASTE</b>		

Flash Point: **NONE** | Flammable Limits in Air % by Volume: **NA** | Lower: **NA** | Upper: **NA** | Extinguisher Media: **NOT NEEDED** | Auto-Ignition Temperature: **NONE**

Special Fire Fighting Procedures: **NORMAL CAUTION WHEN DEALING WITH CHEMICALS**

Unusual Fire and Explosion Hazards: **MAY RELEASE BORON TRIFLUORIDE FUMES**

UPON DECOMPOSITION.

**SECTION 4 - PHYSICAL HAZARDS**

Stability  Unstable  Stable  Conditions to Avoid  EXCESS HEAT

Incompatibility (Materials to Avoid) NA

Hazardous Decomposition Products POSSIBLY BORON TRIFLUORIDE FUMES

Hazardous Polymerization  May Occur  Will Not Occur  Conditions to Avoid

**SECTION 5 - HEALTH HAZARDS**

Threshold Limit Value SEE BELOW Primary Route(s) of entry to body: SKIN, EYES, INGESTION & FUME INHALATION

Signs and Symptoms of Exposure 1. Acute Overexposure SALIVATION, COUGHING, CHOKING & CHILLS

2. Chronic Overexposure MAY CAUSE WEIGHT LOSS, BRITTLE BONES, ANEMIA, WEAKNESS 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	National Toxicology Program	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	I.A.R.C. Monographs	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	OSHA	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
OSHA Permissible Exposure Limit	2.5 MG/M3	ACGIH Threshold Limit Value	2.5 MG/M3	Other Exposure Limit Used	2.5 MG/M3	NIOSH AS FLUORIDE	

Emergency and First Aid Procedures SEE BELOW

- 1. Inhalation REMOVE FROM CONTAMINATED AREA
- 2. Eyes WASH THOROUGHLY WITH WATER AND CALL A PHYSICIAN
- 3. Skin WASH THOROUGHLY WITH WATER
- 4. Ingestion DRINK WATER OR MILK AND CALL A PHYSICIAN

**SECTION 6 - SPECIAL PROTECTION INFORMATION**

Respiratory Protection (Specify Type) NIOSH APPROVED RESPIRATOR IN ABSENCE OF PROPER VENTILATION

Ventilation TO REMOVE FUMES Local Exhaust  Mechanical (General)  Special NA Other NA

Protective Gloves RUBBER OR PLASTIC-COATED Eye Protection SAFETY GOGGLES

Other Protective Clothing or Equipment RUBBER APRON

**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

Precautions to be Taken in Handling and Storage DO NOT STORE IN GLASS OR PORCELAIN CONTAINERS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING, WASH THOROUGHLY AFTER HANDLING.

Other Precautions KEEP CONTAINERS AWAY FROM EXCESSIVE HEAT.

Steps to be Taken in Case Material is Released or Spilled CLEAN UP PASTE AND FLUSH REMAINING MATERIAL WITH LOTS OF WATER

Waste Disposal Methods DISPOSE IN ACCORDANCE WITH LOCAL & STATE/EPA REGULATIONS.