



MATERIAL SAFETY DATA SHEET SUPERIOR No. 18

DATE REVISED: November 11, 2003



Product Name: Superior No. 18

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 = 1

SECTION I - IDENTIFICATION

Common Name: Superior No. 18

Chemical Family: Silver Brazing Powder 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	35-55	5 PPM
Sodium Tetraborate Decahydrate	1303-96-4	50-75	10 PPM

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

Eyes: Flush with Water for 10 Minutes. Call a Physician.

Skin: Wash Thoroughly with Water.

Inhalation: Remove to Fresh Air or Administer Oxygen. Call Physician.

Ingestion: Give Large Amounts of Water. Get Medical Attention.

Primary Routes of Entry: Fume Inhalation, Ingestion, Skin, and Eyes.

Symptoms of Overexposure: Pulmonary Edema, Abdominal Pain, Vomiting.

Medical Conditions Generally Aggravated by Overexposure: Any Weakness of the Lungs or Kidneys will be Aggravated.

Chemical Listed as a Carcinogen or Potential Carcinogen: None

OSHA Permissible Exposure Limit (PEL): 5 PPM

ACGIH Threshold Limit Value (TLV): 5 PPM

Superior manufactures quality fluxes. Our business is solving problems.



SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA

Flammable Limits: NA

Extinguishing Media: Dry Chemical, CO₂ Foam

Auto Ignition Temperature: None

Special Fire Fighting Procedures: Normal Cautions when Dealing with Chemicals.

Unusual Fire and Explosion Hazards: Will release Boric Oxide fumes with high heat.

SECTION V - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Spilled: Clean up Powder, rinse with Lots of Water and Dispose of in Accordance with EPA Regulations.

SECTION VI - HANDLING AND STORAGE

Storage Requirements: Store in Plastic Containers in Cool Area, Away From Heat.

Handling Precautions: Safe Precautionary Practices to Avoid Spills and Exposure to Skin and Fumes.

SECTION VII - CONTROL MEASURES

Respiratory Protection (TYPE): NIOSH Approved Respirator.

Ventilation: Yes

Mechanical (General): Yes

Local Exhaust: Yes

Eye Protection: Safety Glasses/Goggles

Protective Gloves: Recommended, NIOSH Approved

Other Protective Clothing or Equipment: Optional to User's Preference

SECTION VIII - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: NA

Specific Gravity (Water = 1): NA

Vapor Pressure (mm Hg): NA

Percent Volatile by Volume: 0%

Vapor Density (Air = 1): NA

Evaporation Rate (Butyl Acetate = 1): NA

Melting Point: 705°C/1300°F

Solubility in Water: Unlimited

Reactivity in Water: None

Appearance and Odor: White Odorless Powder

SECTION IX - STABILITY AND REACTIVITY

Stability: Product is Stable

(Conditions to Avoid): Metals

Incompatibility: Porcelain or Glass.

Hazardous Decomposition Products: Boric Oxide fumes.

Hazardous Polymerization: Will Not Occur

(Conditions to Avoid): Excessive Heat or Cold

SECTION X - TRANSPORTATION AND DISPOSAL

D.O.T. Proper Shipping Name: Non-Hazardous

Hazard Class: NA

Identification Number: NA

Packing Group: NA

Type D.O.T Label Required Information: NA

Waste Disposal Method: Dispose of in Accordance with EPA Regulations.

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Superior manufactures quality fluxes. Our business is solving problems.



**Superior Flux
& Mfg. Co.**

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