

MATERIAL SAFETY DATA SHEET

SUPERIOR AL26-SERIES

DATE REVISED: October 20, 2011

Product Name: Superior AL26-SERIES

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 = 1 FLAMMABILITY = 0 REACTIVITY = 0

SECTION I - IDENTIFICATION

Common Name: Superior AL26-SERIES

Chemical Family: Metal Paste

CAS Number: NA

Chemical Name: NA

Formula: See Below

SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Tin	7440-31-5	55-93	2.0 mg/m ³
Silver	7449224	1-5	0.10 mg/m ³
Polyethylene Glycol	25322-68-3	6-29	NA
Aminoethylethanolamine	111-41-1	0-4	NA
Ammonium Fluoborate	13826-83-0	0-3	2.5 mg/m ³
Triethanolamine	102-71-6	0-4	NA

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

SECTION III - HEALTH HAZARDS

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

Signs and Symptoms of Exposure:

1) **Acute Effects:** No Specific Information Available.

2) **Chronic Effects:** No Specific Information Available.

Medical Conditions Generally Aggravated by Overexposure: None presently known.

Chemical Listed as a Carcinogen or Potential Carcinogen: NA

OSHA Permissible Exposure Limit (PEL): 0.10 mg/m³

ACGIH Threshold Limit Value (TLV): 0.10 mg/m³

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush with Water for 15 Minutes. Call a Physician.
Skin: Wash Thoroughly with Water.
Inhalation: Remove to Fresh Air or Administer Oxygen. Call Physician.
Ingestion: Get Medical Attention.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA
Flammable Limits: NA
Extinguishing Media: Special Mixtures of Dry Chemicals Suitable for Metal Fires Such as Dry Sand, Dolomite, Graphite, Salt, Soda Ash. **Do Not Apply Water to Burning or Melted Metal.** Water Can be Used to Cool Containers When No Contact with Metal Will Occur.
Auto Ignition Temperature: NA
Special Fire Fighting Procedures: Avoid Breathing Fumes, Smoke From Fire, And Use Self-Contained Breathing Gear.
Unusual Fire and Explosion Hazards: None known

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is spilled: Protect skin and eyes by wearing safety glasses and gloves. Ventilate the area. Restrict and collect spilled materials.

SECTION VII - HANDLING AND STORAGE

Storage Requirements: Store in low temperature and low humidity area.
Handling Precautions: Users should wear protective gloves and glasses when handling solderpaste. Soldering should be conducted in good ventilation environment.
Other Precautions: Keep the tin, and copper fume levels below the OSHA permissible exposure limit.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (TYPE): NIOSH approved
Ventilation: Yes
Mechanical (General): Yes
Local Exhaust: Yes
Eye Protection: Safety glasses
Protective Gloves: NIOSH approved gloves
Other Protective Clothing or Equipment: Recommend laboratory or work coat

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: NA
Specific Gravity (Water = 1): NA
Vapor Pressure (mm Hg): NA
Percent Volatile by Volume: NA
Vapor Density (Air = 1): NA
Evaporation Rate (Butyl Acetate = 1): NA
Melting Point:
Solubility in Water: Partial
Appearance and Odor: Grey paste, ammonia odor

SECTION X - STABILITY AND REACTIVITY

Stability: Product is stable

(Conditions to Avoid): Contact with strong acids and alkali

Incompatibility: Strong acids and alkali

Hazardous Decomposition Products: Not determined

Hazardous Polymerization: Will not occur

(Conditions to Avoid): NA

SECTION XI - TOXICOLOGICAL INFORMATION

Acute Toxicity Data

- 1) **Oral:** LD-50 (rat): Not available
- 2) **Inhalation:** LC-50 (rat): Not available
- 3) **Dermal:** LD-50 (rabbit): Not available
- 4) **Skin Irritation:** (rabbit): Not available

Chronic Toxicity Data

- 1) **Repeated Skin Application:** (rat): Not available
 - 2) **Eye Irritation:** (rabbit): Not available
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SECTION XII - ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with EPA regulations

SECTION XIV- TRANSPORTATION

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 in accordance with EPA regulations.

SECTION XV - REGULATORY INFORMATION

OSHA Hazardous Chemical According to 29 CFR 1910.1200: NA

Carcinogenicity Classification: (Components Present at 0.1% or More)

International Agency for Research on Cancer (IARC): NA

American Conference of Governmental Industrial Hygienists (ACGIH): NA

National Toxicology Program (NTP): NA

Occupational Safety and Health Administration (OSHA): NA

All Components of this Product are Listed on the U.S. Toxic Substances Control Act Inventory or Otherwise Comply with TSCA Pre-manufacture Notification Requirements.

This product is RoHS compliant.

SECTION XVI - OTHER INFORMATION

DISCLAIMER: 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.**
