

# MATERIAL SAFETY DATA SHEET

## SUPERIOR HASL No. 1

DATE REVISED: January 1, 2014

**Product Name:** Superior HASL No. 1

**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 = 1      REACTIVITY = 0**

### SECTION I – IDENTIFICATION

**Common Name:** Superior HASL No. 1

**Chemical Family:** Hot air solder leveling flux

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See below

### SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Polyglycol	9003-11-6	60-80	NA

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

**Primary Routes of Entry:** Fume inhalation, ingestion, skin, and eyes.

**Signs and Symptoms of Exposure:**

1) **Acute Effects:** Reddening of skin and eyes, acid stomach if ingested.

2) **Chronic Effects:** No specific information available.

**Medical Conditions Generally Aggravated by Overexposure:** None presently known.

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

**OSHA Permissible Exposure Limit (PEL):** NA

**ACGIH Threshold Limit Value (TLV):** NA

### SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

**Eyes:** Flush with water for 15 minutes. Call a physician.

**Skin:** Wash thoroughly with soap and water.

**Inhalation:** Remove to fresh air.

**Ingestion:** Drink water or milk. Call a physician immediately

---

## SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** >400°C

**Flammable Limits:** Lower-NA Upper-NA

**Extinguishing Media:** Water, dry extinguishing material

**Auto Ignition Temperature:** None

**Special Fire Fighting Procedures:** Normal caution when dealing with chemicals

**Unusual Fire and Explosion Hazards:** None

---

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is spilled:** First neutralize with soda ash or sodium bicarbonate, dilute with water, and dispose of in accordance with EPA regulations. Wash residual amounts with lots of water.

---

## SECTION VII - HANDLING AND STORAGE

**Storage Requirements:** Store away from heat to protect plastic containers.

**Handling Precautions:** Safe precautionary practices to prevent exposure to skin and fumes.

**Other Precautions:** Trace amounts of ethylene oxide may be present in this product. Trace amounts could accumulate in headspace after heating, but will not yield concentrations greater than 0.5 PPM.

---

## SECTION VIII - CONTROL MEASURES

**Respiratory Protection (TYPE):** NIOSH approved respirator.

**Ventilation:** Yes

**Mechanical (General):** Yes

**Eye Protection:** Safety glasses

**Protective Gloves:** Recommended, NIOSH approved

**Local Exhaust:** Yes

**Other Protective Clothing or Equipment:** Optional to user's preference

---

## SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** NA

**Specific Gravity (Water = 1):** 1.10

**Vapor Pressure (mm Hg):** NA

**Percent Volatile by Volume:** 80.0%

**Vapor Density (Air = 1):** NA

**Evaporation Rate (Butyl Acetate = 1):** NA

**Melting Point:** NA

**Solubility in Water:** Unlimited

**Reactivity in Water:** None

**Appearance and Odor:** Clear viscous liquid

---

## SECTION X - STABILITY AND REACTIVITY

**Stability:** Product is stable

**(Conditions to Avoid):** NA

**Incompatibility:** None

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>

**Hazardous Polymerization:** NA

**(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

---

## 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.

---