

# MATERIAL SAFETY DATA SHEET

## RUBYFLUID

DATE REVISED: July 13, 2011

**Product Name:** Rubyfluid

**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.

<b>H.M.I.S. INFORMATION: HEALTH = 2</b>	<b>FLAMMABILITY = 0</b>	<b>REACTIVITY = 1</b>
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### SECTION I - IDENTIFICATION

**Common Name:** Rubyfluid

**Chemical Family:** Soldering Flux

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See Below

### SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Zinc Chloride	7646-85-7	30-45	1 mg/m <sup>3</sup>

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.

**Symptoms of Overexposure:** Pulmonary edema, abdominal pain, vomiting, eye damage and skin burn.

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

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

**OSHA Permissible Exposure Limit (PEL):** 1 mg/m<sup>3</sup>

**ACGIH Threshold Limit Value (TLV):** 1 mg/m<sup>3</sup>

### SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

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

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

**Inhalation:** Remove to fresh air or administer oxygen. Call physician.

**Ingestion:** Do NOT induce vomiting. If person is conscious give water or milk. Get medical attention.

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## SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** NA

**Flammable Limits:** NA

**Extinguishing Media:** Dry chemical, CO<sub>2</sub> foam.

**Auto Ignition Temperature:** None

**Special Fire Fighting Procedures:** Wear self contained breathing apparatus and protective clothing.

**Unusual Fire and Explosion Hazards:** None.

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## 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.

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## SECTION VII - HANDLING AND STORAGE

**Storage Requirements:** Store in plastic containers in cool area, away from heat. Do not allow this product to freeze.

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

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## SECTION VIII - CONTROL MEASURES

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

**Ventilation:** Yes

**Mechanical (General):** Yes

**Local Exhaust:** Yes

**Protective Gloves:** Recommended, NIOSH approved

**Other Protective Clothing or Equipment:** Rubber apron is recommended

**Eye Protection:** Chemical splash goggles and face shield in accordance with OSHA.

**Regulatory Information:** The chemical components are listed on TSCA and DSL inventory. See composition section ii for CAS numbers.

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## SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** 107°C/225°F

**Specific Gravity (Water = 1):** 1.32

**Vapor Pressure (mm Hg):** <18 mm Hg @ 20°C

**Percent Volatile by Volume:** 73.5%

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

**Freezing Point:** <30°F

**Solubility in Water:** Unlimited

**pH:** 4 – 5 @ 20 - 25 °C

**Appearance and Odor:** Red-colored liquid, no characteristic odor.

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## SECTION X - STABILITY AND REACTIVITY

**Stability:** Product is stable

**(Conditions to Avoid):** NA

**Incompatibility:** Avoid contact with cyanides (toxic HCN gas may result and sulfide salts (toxic H<sub>2</sub>S may result.

**Hazardous Decomposition Products:** None known.

**Hazardous Polymerization:** Will not occur

**(Conditions to Avoid):** NA

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## 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.**

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## SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of in accordance with EPA regulations

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## SECTION XIV- TRANSPORTATION

**D.O.T. Proper Shipping Name:** Zinc Chloride Solution (Contains Zinc Chloride)

**Hazard Class:** 8

**Identification Number:** UN1840

**Packing Group:** III

**Type D.O.T Label Required Information:** Corrosive

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## SECTION XV - REGULATORY INFORMATION

**OSHA Hazardous Chemical According to 29 CFR 1910.1200:** None

**Carcinogenicity Classification (Components Present at 0.1% or More):** Non-Carcinogenic

**International Agency for Research on Cancer (IARC):** Not listed

**American Conference of Governmental Industrial Hygienists (ACGIH):** Not listed

**National Toxicology Program (NTP):** Not listed

**Occupational Safety and Health Administration (OSHA):** Not listed

**None of the components of this product are listed on the U.S. toxic substances control act.**

**Inventory or otherwise comply with TSCA premanufacture notification requirements.**

**This Product is RoHS Compliant.**

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## **SECTION XVI - OTHER INFORMATION**

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