

# MATERIAL SAFETY DATA SHEET

## Solder-Magic Gel Flux

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### 1. PRODUCT INGREDIENTS

<u>Chemical Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>WT%</u>	<u>CAS #</u>
Glutamic Acid Hydrochlorine	N/A	N/A	7-15	138-15-8

Common Name: SOLDER-MAGIC GEL FLUX  
CAS Number: NA  
Formula: See Above

Chemical Family: ORGANIC ACID SOLDERING  
FLUX  
Chemical Name: NA

### HMIS RATINGS

Health 1	Flammability 0	Reactivity 0
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### 2. PHYSICAL DATA

Boiling Point: 104°C/220°F

Specific Gravity (Water=1): 1.09

Vapor Density (Air=1): N/A

Melting Point: 0°C/32°F

Appearance and Odor: Blue Liquid, Citrus Odor

Solubility in Water: Unlimited

Reactivity in Water: None

Vapor Pressure (mm Hg): N/A

Evaporation Rate (Butyl Acetate=1): 0.9

Percent Volatile by Volume: 85%

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### 3. FIRE AND EXPLOSION DATA

Flash Point

N/A

Flammable Limits

N/A

Auto Ignition Temp.

None

Unusual Fire and Explosion Hazards

Will Release Small Amounts of HCl.

Special Fire Fighting Procedures

Normal Cautions when Dealing with Chemicals.

Extinguisher Media

Not Necessary.

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### 4. REACTIVITY

Stability: STABLE

Conditions to Avoid: SPARKS AND OPEN FLAME

Incompatibility: STRONG OXIDIZERS, METALS

Hazardous Polymerization: WILL NOT OCCUR

Hazardous Decomposition Products: SMALL AMOUNTS OF HCl.

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### 5. HEALTH HAZARDS

**Primary Routes of Entry:**

**FUME INHALATION, INGESTION, SKIN AND EYES.**

**Symptoms of Overexposure:**

**NO SPECIFIC INFORMATION AVAILABLE.**

**Medical Conditions Generally Aggravated By Exposure:**

**NONE PRESENTLY KNOWN.**

**Chemical Listed As Carcinogen:**

**NONE**

**OSHA Permissible Exposure Limit (PEL): N/A**

**ACGIH Threshold Limit Value (TLV): N/A**

**Eye Contact: FLUSH EYES WITH PLENTY OF WATER FOR 10 MINUTES. CALL A PHYSICIAN.**

**Skin Contact: WASH THOROUGHLY WITH WATER.**

**Inhalation: REMOVE PERSON TO FRESH AIR OR ADMINISTER OXYGEN. CALL PHYSICIAN.**

**Ingestion: GIVE WATER OR MILK. GET MEDICAL ATTENTION.**

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## **6. SPECIAL PRECAUTION AND SPILL/LEAK PROCEDURES**

**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**

**If Material is Released or Spilled:**

**FIRST NEUTRALIZE WITH SODA ASH OR SODIUM BICARBONATE, DILUTE WITH WATER AND DISPOSE OF IN ACCORDANCE WITH EPA REGULATIONS AND WASH WITH PLENTY OF WATER.**

**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 Methods:**

**DISPOSAL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.**

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## **7. SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

**Respiratory Protection: NIOSH APPROVED RESPIRATOR.**

**Mechanical (General): YES**

**Protective Gloves:**

**RECOMMENDED, NIOSH APPROVED**

**Eye Protection:**

**SAFETY GLASSES/GOGGLES**

**Other Protective Equipment:**

**OPTIONAL TO USER'S PREFERENCE**

**Ventilation: YES**

**Local Exhaust: YES**

**Work/Hygienic Practices:**

**WASH HANDS AFTER HANDLING PRODUCT, AVOID PROLONGED OR REPEATED CONTACT WITH SKIN OR BREATHING OF VAPORS.**

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