

# MATERIAL SAFETY DATA SHEET

## LS - LIQUID SOLDER

**MANUFACTURER:**

NAME: Leech Products, Inc.  
ADDRESS: 1430 West Fourth Street  
ADDRESS: Hutchinson KS 67504-2147

EMERGENCY PHONE #: 800-424-9300 - CHEMTREC  
INFORMATIONAL PHONE #: 316-669-0145  
DATE: 03/15/91

**- SECTION 1 - PRODUCT -**

Trade name: Liquid Solder  
Synonym: Putty

A245

**- SECTION II - HAZARDOUS INGREDIENTS -**

MATERIALS OR COMPONENTS	% (W/W)	CAS NO.	HAZARD DATA
Methyl Ethyl Ketone	40-50%	78-93-3	ACGIH TLV 50 ppm STEL 75 ppm
Methyl Isobutyl Ketone	20-25%	100-10-1	ACGIH TLV 50 ppm STEL 75 ppm OSHA PEL/TWA 100 ppm
Butyl Benzyl Phthalate	2-5%	85-68-7	ACGIH TWA 5 mg/m <sup>3</sup>
Aluminum Powder	5-10%	7429-90-5	ACGIH TWA 10 mg/m <sup>3</sup> ; STEL 20 mg/m <sup>3</sup>
Caster Oil Derivative	1-5%	8001-78-3	OSHA: PEL 15 mg/m <sup>3</sup>

**- SECTION III - PHYSICAL PROPERTIES -**

Boiling Point:	N/A	Melting Point:	N/A
Vapor Pressure:	Unknown	Specific Gravity (Water=1):	0.96
Vapor Density (AIR=1):	Unknown	Volatile by Volume:	Unknown
Water Solubility:	Nil	Evaporation Rate (Ethyl Ether=1):	Slower than
Appearance:	Silver-Gray paste	V.O.C.:	617 gas/ltr

**- SECTION IV - FIRE & EXPLOSION DATA -**

Flash Point 0':	24°F Seta Closed Cup
Fire Extinguishing Media:	CO <sub>2</sub> , Dry Chemicals, Foam
Special Fire Fighting Procedures: Firefighters wear self-contained breathing apparatus. Fight like a fuel oil fire.	
Unusual Fire & Explosion Hazard:	Closed containers exposed to high temperatures such as fire conditions may rupture.
Flammable Limits:	N/E

**- SECTION V - HEALTH HAZARD INFORMATION -**

Threshold Limit Value:	Product TLV not established. Component TWA is 5 mg/m <sup>3</sup>
Health Hazards:	Chronic exposure may affect the CNS, respiratory system, eyes, skin, lungs. Acute exposure may irritate eyes, mucous membranes, nose and throat.

STATE REGULATIONS:	Trace amounts of epichlorohydrin and vinyl chloride monomer, substances which are human carcinogen hazards, may be contained in this product. The level does not constitute a significant risk.
CARCINOGENICITY:	IARC has concluded that there is "sufficient" evidence for the carcinogenicity of crystalline silica to experimental animals; and "limited evidence" with respect to humans.
CALIFORNIA PROPOSITION 65:	Trace amounts of some chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be present in this product.

FIRST AID PROCEDURES:	
SKIN:	Wash with soap and excess water. Obtain medical attention if irritation occurs.
EYE CONTACT:	Flush promptly with excess water for 15 minutes. Call a physician.
IF SWALLOWED:	Do NOT induce vomiting. Call a physician. If conscious, give a glass of water to person.
INHALATION:	Remove from contaminated areas, apply artificial respiration if necessary, call a physician.

**- SECTION VI - TOXICITY -**

Oral (acute) (rats):	N/E	Acute Intraperitoneal (mice):	N/E
Inhalation (acute) (rats):	N/E	Chronic, Subchronic, Etc.:	N/E

## - SECTION VII - REACTIVITY DATA -

Stability:	Stable
Incompatibility:	Strong oxidizing agents and strong alkalis.
Hazardous Decomposition Products:	Thermal decomposition will yield carbon monoxide and carbon dioxide and organic decomposition products
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Heat, sparks, and open flames

## - SECTION VIII - SPILL & DISPOSAL METHOD -

Steps to be Taken if Material is Released or Spilled:	Dike spills with absorbent material. Correct with non-sparking tools and place in container.
Waste Disposal Method:	Disposal method must comply with local, state and federal regulations.

## - SECTION IX - SPECIAL PROTECTION INFORMATION -

Respiratory Protection:	Ventilate with air flow to keep vapor concentration below TLV or wear NIOSH approved respirator.
Ventilation Requirements:	Fan or forced air
Local:	Exhaust
Mechanical:	Acceptable (explosion proof motor)
Special:	See Handling and Storage Precautions
Eye:	Safety goggles or face shield to protect against spraying
Hand:	Neoprene or equivalent required
Other Protective Equipment:	Eye wash fountain and safety shower should be available. Prevent inhalation of dust when sanding cured product. When ventilation is inadequate, use NIOSH approved air line mask or self-contained breathing apparatus.

## - SECTION X - HANDLING AND STORAGE PRECAUTIONS -

Other Storage and Handling Conditions:	Keep away from extreme heat, open flames, or other sources of ignition. Store with adequate ventilation. Do not store above 100°F.
Miscellaneous:	HMIS Rating: HEALTH - 2, FLAMMABILITY - 3, REACTIVITY - 1; Code: Least Hazardous - 0, Greatest Hazard - 4

### Section 313:

Supplier Notification: This product contains the following toxic chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WT.
Methyl Ethyl Ketone	78-93-3	40-45%
Butyl Benzyl Phthalate	85-68-7	2-5%
Aluminum Powder	7429-90-5	5-10%
Methyl Isobutyl Ketone	108-10-1	20-25%

This information must be included in all MSDS's that are copied and distributed for this material.  
NOTES: N/E=Not Established N/D=Not Determined N/A=Not Applicable

## - SECTION XI - DISCLAIMER -

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