

**MATERIAL SAFETY DATA SHEET**  
**ALP-21 ALUMINUM SOLDER PASTE**

SOLDER-IT™, INC.  
P.O. BOX 576  
ARMONK, NEW YORK 10504

Phone:  
INQUIRY- (914) 747-1092  
EMERGENCY-(914) 747-1092  
CHEM-TEL INC. 1-800-255-3924

HAZARD RATING		
HEALTH	2	0=LEAST 1=SLIGHT
FLAMMABILITY	1	2=MODERATE 3=HIGH
REACTIVITY	1	4=EXTREME

IDENTITY: (As used on label and list) **ALUMINUM SOLDER PASTE**

**SECTION I**

<b>MANUFACTURER'S NAME:</b>	<b>SOLDER-IT™, INC.</b>
<b>ADDRESS:</b>	<b>P.O. BOX 576</b> <b>ARMONK, N.Y. 10504</b>
EMERGENCY PHONE NUMBER:	914-747-1092
PHONE NUMBER FOR INFORMATION:	914-747-1092
DATE PREPARED:	MARCH 24, 1994
NAME OF PREPARER:	

**SECTION II HAZARDOUS INGREDIENTS/INFORMATION**

HAZARDOUS COMPONENTS	CAS. #	OSHA PEL	ACGIH TLV	OTHER STEL	% OR RANGE
TIN	7440-31-5	2 mg(Sn)/m3	2 mg/m3	4 mg/m3	< 80
SILVER	7440-22-4	10 ug/m3	100 ug/m3		< 5
BISMUTH	7440-69-9	NOT ESTAB.	NOT ESTAB.		< 5
PETROLATUM	8009-03-8	NOT ESTAB.	NOT ESTAB.		< 29
GLYCERINE	56-81-5	NOT ESTAB.	10 mg/m3	(MISTS)	< 6
ZINC AMMONIA CHLORIDE	7646-85-7	1mgFUME/m3	1 mg/m3	2 mg/m3	< 2
AMMONIUM FLUROBORATE	13826-83-0	2.5 mg (F) / m3	2.5 mgF/m3		< 9
AMINOETHYLETHANOLAMINE	111-41-1	NOT ESTABLISHED	NOT ESTABL.		< 9
ZINC OXIDE (AS FUME)	1314-13-2	5 mg/m3	5 mg/m3		< 7

NOTE: SILVER IS A CERCLA CERCLA HAZARDOUS SUBSTANCE RELEASES OR WHICH ARE REPORTABLE UNDER CERCLA AND SARA TITLE 111, SECTION 304 WHEN IN EXCESS OF 1000 POUNDS OF SILVER (20,000 POUNDS OF THIS PRODUCT).

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point	N/A	Specific Gravity (H2O=1)_ (approx)2.66
Vapor Pressure (mm Hg)	Nil	Melting Point _____ 132° F
Vapor Density (Air=1)	N/A	Evaporation Rate (Butyl Acetate=1) _____ Nil
Solubility in Water:	LESS THAN 2%	
Appearance and odor:	GRAY PASTE WITH BLAND ODOR.	

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**SECTION IV- FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used): 400°F (OC) Flammable Limits: - LEL UNK. UEL -UNK.  
Extinguishing Media: DRY CHEMICAL, ALCOHOL FOAM OR CARBON DIOXIDE.  
Special Fire Fighting Procedures: PRODUCT EXPOSED TO HIGH TEMPERATURES MAY PRODUCE TOXIC FUMES. FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR.  
Unusual Fire And Explosion Hazards: HEATED CONTAINERS MAY RUPTURE VIOLENTLY. COOL WITH A WATER MIST TO PREVENT OVERHEATING.

**SECTION V- REACTIVITY DATA**

Stability: Stable  
Incompatibility (Materials to Avoid): Avoid flames. Do not mix with acids, oxidizing agents, sulfur or chlorine.  
Hazardous Decomposition or Byproducts: Heat and carbon dioxide. Exposure to strong acids can produce toxic organic and inorganic tin and silver compounds. Acrolein.  
Hazardous Polymerization: Will Not Occur.

**SECTION VI- HEALTH HAZARD DATA**

Route(s) of Entry:  
Inhalation? Mists are extremely irritating.  
Skin? May be irritating.  
Ingestion? May result in irritation to gastrointestinal tract.  
Eyes? May be irritating.

Health Hazards (Acute and Chronic): On rare occasions, after prolonged or repeated exposure to mists of Petrolatum, some individuals may experience shortness of breath and cough.

Carcinogenicity:  
NTP? Ingredients not on list.  
IARC monographs? Ingredients not on list.  
OSHA Regulated? NO

Signs and Symptoms of Exposure:  
INHALATION- Irritation of respiratory system with possible difficulty in breathing.  
INGESTION- Small amounts may cause gastric distress, diarrhea and vomiting.  
SKIN CONTACT- Irritation.  
EYE CONTACT- irritation, possibly severe.  
Medical Conditions Generally Aggravated by Exposure: Unknown  
Emergency and First Aid Procedures:  
INGESTION- Do not induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

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INHALATION- Remove victim to fresh air. If breathing has stopped, administer artificial respiration. If breathing does not return to normal within a few minutes, GET MEDICAL ATTENTION IMMEDIATELY!

EYE CONTACT- immediately flush eyes in clear running water for at least 15 minutes lifting upper and lower lids periodically. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT- Flush skin with plenty of water for at least 15 minutes

**SECTION VII- PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps to Be Taken in Case Material is Released or Spilled:

SPILLS- Absorb on inert material such as clay, vermiculite or sand. Place in sealable container for disposal as hazardous waste.

Waste Disposal Method: Non-hazardous. NOTE: THIS PRODUCT CONTAINS-MATERIALS WHICH ARE CERCLA HAZARDOUS WASTES. DISPOSE IN AN APPROVED HAZARDOUS WASTE SITE. LARGE SPILLS ARE REPORTABLE UNDER SARA TITLE 111, SECTION 304.

Other Precautions: KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN.

**SECTION VIII- Control Measures**

Respiratory Protection (Specify Type): FOR EXPOSURE BELOW TLV AND PEL VALUES (SEE SECTION 11) THE USE OF A PARTICLE MASK IS RECOMMENDED. FOR EXPOSURE ABOVE TLV AND PEL USE NIOSH/MSHA SA:CF (WITH EYE PROTECTION)/PAPRHIE (WITH EYE PROTECTION). FOR ESCAPE USE HIEF/SCBAE.

Ventilation: LOCAL EXHAUST TO KEEP EXPOSURE BELOW TLV AND PEL VALUE.

Protective Gloves: Rubber or neoprene

Eye Protection: Chemical goggles or face splash shield.

Other Protective clothing or Equipment: Use chemical resistant apron to prevent excessive skin contact.

Work/Hygienic Practices: Wash product from clothes and skin. Use good housekeeping practices.

Storage and handling: STORE AWAY FROM SOURCES OF HEAT, SPARK AND FLAME. DO NOT STORE WITH OR NEAR ACIDS OR OXIDIZING MATERIALS.

**SECTION IX - Additional Information**

ENVIRONMENTAL

BIODEGRADABILITY: ORGANIC PORTION IS BIODEGRADABLE.

WASTE DISPOSAL METHODS: DISPOSE OF IN AN AUTHORIZED WASTE FACILITY IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

ADDITIONAL INFORMATION

EMPTY CONTAINER HANDLING: WARNING! EMPTIED CONTAINER RETAINS PRODUCT RESIDUE. OBSERVE ALL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED. KEEP EMPTY CONTAINER CLOSED TIGHTLY.

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SARA TITLE III REPORTING REQUIREMENTS

SECTION 302- EXTREMELY HAZARDOUS SUBSTANCES	REPORTING NOT REQUIRED
SECTION 304- HAZARDOUS RELEASES	REPORTING REQUIRED FOR SPILLS OVER 20,000 LBS.
SECTION 311- COMMUNITY RIGHT TO KNOW (R-T-K)	REPORTING REQUIRED FOR INVENTORIES ABOVE THRESHOLD PLANNING QUANTITY (TPQ)
SECTION 312- R-T-K INVENTORY DATA	REPORTING REQUIRED FOR INVENTORIES ABOVE THRESHOLD PLANNING QUANTITY (TPQ)
SECTION 313- EMISSIONS AND RELEASE	REPORTING NOT REQUIRED
CERCLA HAZARDOUS MATERIALS	SAME AS SECTION 304.

REFERENCES

TOXIC SUBSTANCE CONTROL ACT LIST (TSCA) - INGREDIENTS LISTED.

PERMISSIBLE EXPOSURE REFERENCES:

REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

TITLE 29 CODE OF FEDERAL REGULATIONS

NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS

INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS

REGULATORY STANDARDS:

DOT TITLE 49 CODE OF FEDERAL REGULATIONS 172.101  
SARA TITLE III

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