

H1BAK1083 Uni-Core Leak-Pruf Acid Solder

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MATERIAL SAFETY DATA SHEET

Effective Date: 4-22-95

Revision Date: none

Uni-Core Leak-Pruf Acid Solder

Code: ALM

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Section 1 - Product and Company Identification

PRODUCT NAME: Uni-Core Leak-Pruf Acid Solder

MANUFACTURER'S NAME:

Alpha Metals  
600 Route 440  
Jersey City, NJ 07304

EMERGENCY TELEPHONE NUMBER

(800)424-9300

MISCELLANEOUS INFORMATION

(201)434-6778

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Section 2 - Hazardous Ingredients

INGREDIENTS	CAS NUMBER	WEIGHT PERCENT	OSHA PEL	ACGIH TLV
Lead } Product contains	7439-92-1	*	0.05 mg/cum	0.15 mg/cum
Tin } one or more of	7440-31-5	*	2.0 mg/cum	2.0 mg/cum
Silver } these metallic	7440-22-4	*	0.01 mg/cum	0.1 mg/cum
Bismuth } elements in	7440-69-9	*	NE	NE
Antimony } varying	7440-36-0	*	0.5 mg/cum	0.5 mg/cum
Indium } percentages	7440-74-6	*	NE	0.1 mg/cum
Ammonium Chloride (Fume)	12125-02-9	<1.0	NE	10mg/cum STEL 20mg/cum

\*WEIGHT PERCENT: Composition of solder alloys vary widely therefore no weight percent or specific gravity is given. (See product label for composition.)

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Section 3 - Hazards Identification

INHALATION: When heated to molten state flux may cause respiratory irritation. For overexposure to lead, tin, bismuth, antimony and indium fume at soldering temperatures see Section 11.

INGESTION: NOT likely to occur.

SKIN: Molten core solder will cause burns.

EYES: Molten core flux will cause eye burns. Flux fumes can cause eye irritation.

TOXICITY: See section 11.

LISTED CARCINOGENS: None

Also see section 11 for additional information.

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Section 4 - First Aid Measures

INHALATION: If flux fume is inhaled when wire is heated to soldering temperatures, remove individual to fresh air. If breathing is difficult administer oxygen and consult a physician.

INGESTION: Call physician or Poison control Center immediately. Never give anything by mouth to an unconscious person.

SKIN CONTACT: For burns cool with water and obtain medical aid.

EYE CONTACT: For burns flush immediately with cool water and obtain medical aid. For fume irritation remove individual from exposure.

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Section 5 - Firefighting Measures

ESTIMATED FLAMMABLE LIMITS(% By Volume in Air)

LEL: NA

UEL: NA

FLASH POINT(Deg F): NA

EXTINGUISHING MEDIA: NA

SPECIAL FIRE FIGHTING PROCEDURES: Use NIOSH approved self-contained breathing apparatus and full protective clothing if involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARD: When heated to high temperatures, lead emits highly toxic fumes.

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Section 6 - Environmental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Solid at room temperature. If in molten state allow to cool and solidify. Then scoop up. Flux is water soluble.

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Section 7 - Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

No special requirements for storage. Read all container labeling. Food and drink should not be consumed or tobacco products used, nor cosmetics applied in areas where core solders may be used. Always wash hands after handling core solder and before eating, drinking or smoking.

OTHER PRECAUTIONS: Containers: Since empty containers may retain product residues (vapors, liquid or solid) all labeled hazard precautions must be observed. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

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Section 8 - Exposure Controls/Personal Protection

RESPIRATORY: If any threshold limit value is exceeded, use NIOSH/MSHA approved respirator.

EYEWEAR: When soldering use safety goggles.

CLOTHING/GLOVES: Not usually necessary.

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure levels below TLV's.

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Section 9 - Physical and Chemical Properties

(PUBLISHED OR ESTIMATED VALUES)

BOILING POINT(Deg F)

(760 mm Hg) : NA

VAPOR PRESSURE

(mm Hg at 20 Deg. C) : NA

VAPOR DENSITY(Air=1) : NA

SOLUBILITY IN WATER : Insoluble

APPEARANCE AND ODOR : Silver-gray metal wire, odorless, various shapes and sizes.

SPECIFIC GRAVITY

(H2O=1)(@77 deg F) : NA

% VOLATILE BY WEIGHT : NA

EVAPORATION RATE(BUAC=1): NA

pH : NA

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Section 10 - Stability and Reactivity

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATABILITY(Materials to Avoid): Oxidizing materials, strong acids

HAZARDOUS DECOMPOSITION PRODUCTS: See section 11.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None

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Section 11 - Toxicological Information

PRODUCT COMPOSITION: (core wire solder)

Flux Portion: 1-4%

Solder Alloy: 96-99%

LEAD TOXICITY: Molten solder alloys do not produce significant lead fumes below 900 deg F. Exposure to high levels of airborne or ingested lead may produce symptoms of anemia, insomnia, weakness, constipation, nausea and abdominal pain. Prolonged exposure may result in kidney and nervous system involvement. Women of child bearing age should avoid exposure to lead due to post-natal effects.

TIN, SILVER, BISMUTH, ANTIMONY AND INDIUM TOXICITY: Overexposure to these elements is not expected.

REACTIVITY DATA (CONTINUED):

HAZARDOUS DECOMPOSITION PRODUCTS: The smoke from a soldering operation using this product may contain a trace of ammonia.

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Section 12 - Ecological Information

Not available.

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Section 13 - Disposal Considerations

WASTE DISPOSAL: The alloy portion is reclaimable.

Must be in accordance with Federal, State and Local Laws and Regulations.

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Section 14 - Transport Information

D.O.T. HAZARD CLASS: Not regulated

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Section 15 - Regulatory Information

CALIFORNIA STATE PROPOSITION 65: WARNING!! This product contains LEAD known to the State of California to cause birth defects or other reproductive harm.

TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS: All ingredients of this product are listed on the TSCA inventory.

SARA TITLE III(SECTION 313): Components that may be present in this product at a level which could require reporting under the statute are:

Lead - Silver - Antimony

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Section 16 - Other Information

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