

MATERIAL SAFETY DATA SHEET

MSDS Name: Kapp Hi-Pure™ Lead

MSDS Number: 951

MSDS Date: 02.09.2010

Page 1 of 3

SECTION I: PRODUCT AND COMPANY INFORMATION

Product Name: Kapp Hi-Pure™ Lead
 CAS Number: Lead (Pb): 7439-92-1

Company Identification: Kapp Alloy and Wire
 1 Klein Street / PO Box 1188
 Oil City, PA 16301

Contact: Operations Team Leader, Telephone: 814.676.0613, Fax: 814.676.5565, Email: info@kappalloy.com

SECTION II: HAZARD INFORMATION**PRIMARY ROUTES OF ENTRY**

- Inhalation: fumes
- Ingestion: Solid metals – not edible; highly unlikely
- Skin Absorption: N/A

SIGNS AND SYMPTOMS OF OVEREXPOSURE

- Flu-like symptoms (nausea, constipation, headache, dizziness) - self-limiting, usually disappear within 24 hours

SECTION III: COMPOSITION / INGREDIENTS

*(Hazardous components 1% or greater; Carcinogens 0.1% or greater)

Component	CAS Number	OSHA PEL	ACGIH TLV	Density lbs/in ³ & g/cm ³	% (optional)
Lead (Pb)	7439-92-1	.05 mg/m ³ (Dust&Fume)	.15 mg/m ³ (Dust&Fume)	.4094 & 11.332	>99.99

NA = Not Applicable NE = Not Established NAIF = No Applicable Information found

*The OSHA standard limit for occupational exposure to lead as referenced in CFR Title 29, Part 1910.1025 is 50 micrograms/cubic meter based on an eight hour time-weighted average. This standard states that, when the air of work-rooms contains regularly not more than 50 micrograms of inorganic lead and its inorganic compounds per cubic meter of air, as measured by prescribed methods, cases of lead intoxication will not occur.

SECTION IV: FIRST AID MEASURES

Ingestion: Drink large quantities of water - induce vomiting.
 Call a physician at once; advise of chemical composition (section III).

Skin: Wash thoroughly with water to remove any residue. If a rash develops, call a physician.

Inhalation: Terminate exposure and remove to fresh air. Call physician; advise of chemical composition (section III).

Eyes: Flush with water for at least 15 minutes to remove irritant. Consult a physician.

SECTION V: FIRE FIGHTING MEASURES

Flash point & Methods Used: N/A
 Auto Ignition Temperature: N/A
 Flammability Limits: (in air, % by volume) LEL: N/A and UEL: N/A
 Extinguisher Media: CO₂ or dry chemical extinguisher.

**DO NOT USE WATER ON MOLTEN METAL:
 LARGE FIRES MAY BE FLOODED WITH WATER FROM A DISTANCE**

Special Fire Fighting Procedures Use NIOSH/MSHA -approved self-contained breathing apparatus and full protective clothing if involved in fire.

Unusual Fire and Explosion Hazards: Finely divided dust may form explosive mixture with air.

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MSDS Name: Kapp Hi-Pure™ Lead

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Page 2 of 3

NEVER DROP WATER OR LIQUIDS INTO MOLTEN SOLDER.***Do not plunge damp or wet solder bars/pieces into molten solder*****NOTE: When overheated, lead fumes are toxic. NEVER EXCEED 500°C / 932°F****SECTION VI: ACCIDENTAL RELEASE MEASURES**

Steps to be taken if material is spilled or released:

- Solder is solid / recyclable
- Vacuuming is recommended for accumulated metal dust from saw/grind operations.

SECTION VII: HANDLING AND STORAGE

Precautions to be taken in handling and storage:

- Dry storage; ambient temperature

Other Precaution / Special Handling:

- **Wet or moist ingot(s) WILL present an explosion hazard when submerged in molten solder.**

AVOID FIRE/EXPLOSION RISKS. Always preheat ingot before charging into furnace.*SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Respiratory Protection: Use NIOSH-approved breathing apparatus to prevent exposure to dusts and fumes.

Eye Protection: Approved safety glasses or welding goggles, appropriate to your procedure, should be worn.

Ventilation: Local Exhaust: YES Mechanical: YES Special: Conform to your regulatory statutes.

Other: Standard protective equipment used in soldering (/applicable) operations.

*Protective gloves are recommended, especially for high temperature applications to prevent burns.

*Conform to all local, state, federal regulations.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	3137 ^o F / 1725 ^o C
Melting Point:	621.3 ^o F / 327.4 ^o C
Vapor Pressure (mm Hg.):	N/A
Vapor Density (AIR = 1):	N/A
Density:	0.4094 lbs/in ³ and/or 11.332g/ml
Solubility in Water:	0 (solid)
Evaporation Rate (Butyl Acetate = 1):	N/A
Appearance and Odor:	Dull, silver metal; odorless / various shapes / sizes

SECTION X: STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	None
Incompatibility (materials to avoid):	Strong Acids, Strong Alkalis
Hazardous Decomposition Products:	None; Hazardous Polymerization will not occur

SECTION XI: TOXICOLOGY INFORMATION

Lead (Pb): Chronic exposure to high levels of airborne or ingested lead may result in anemia, insomnia, weakness, constipation, nausea, and abdominal pain.

IT IS UNLIKELY THAT NORMAL EXPOSURE (USING APPROPRIATE PROTECTIVE EQUIPMENT) WOULD RESULT IN ILLNESS.

*0 = Insignificant	1 = Slight	2 = Moderate	3 = High	4 = Extreme
	Health	Flammability	Reactivity	Special
NFPA Rating	1	0	0	0
HMIS Rating	1	0	0	0

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Page 3 of 3

SECTION XII: ECOLOGY INFORMATION

This product will not biodegrade. It will oxidize if left out in the elements, but will not affect the surrounding ecology.

SECTION XIII: DISPOSAL CONSIDERATION

Waste Disposal Method

- Dispose of according to federal, state, local, and OSHA regulations.

SECTION XIV: TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION

Proper shipping name:	Solder wire - NOT REGULATED
Hazard Class:	NAIF
ID & Packing Group Number:	NAIF
ERG Guide Number:	NAIF

SECTION XV: REGULATORY INFORMATION

SARA Title III Program:

- This product contains the following toxic chemicals subject to the reporting requirements of EPCRA of 1986 and 40 CFR 372.

CHEMICAL NAME	CAS NO.	CONCENTRATION
Lead (Pb)	7439-92-1	99.99+%

SECTION XVI: OTHER INFORMATION

This information must be included in all MSDS that are copied and distributed for this material.

**GOOD HOUSEKEEPING PROCEDURES SHOULD BE MAINTAINED.
PERSONNEL SHOULD WASH THOROUGHLY BEFORE SMOKING OR EATING
FOOD AND DRINK SHOULD NOT BE CONSUMED, TOBACCO PRODUCTS USED, OR COSMETICS
APPLIED IN AREAS WHERE EXPOSURES EXIST.**

Please retain this sheet for your files. Kapp Alloy maintains a file of Material Safety Data Sheets (MSDS) for each alloy produced in compliance with Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) & various right-to-know laws.

The information and recommendations contained within this publication have been compiled from sources believed to be reliable and to represent the best information available to Kapp Alloy and Wire, Inc. at the time of issue. It is our policy to include an MSDS with initial orders for each product. This submission is to become a matter of record and need not accompany subsequent shipments for the same product to the same customer. The information contained on this sheet is intended solely for employee health and safety education and not for contract specification purposes. No warranty, guarantee, or representation is made by Kapp Alloy and Wire, Inc., nor does Kapp Alloy and Wire, Inc. assume any responsibility in connection there within; nor can it be assumed that all acceptable safety measures or other safety measures may not be required under particular or exceptional conditions or circumstances. Should you need additional information, contact us.