

**SAFETY DATA SHEET**

SDS Name: Kapp WJ-4 - White Metal Babbitt

GHS SDS Number: 518

GHS SDS Date: 06/24/2017

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**SECTION I: PRODUCT AND COMPANY INFORMATION**

Product Name: Kapp WJ-4 - White Metal Babbitt

Component	CAS Number	Component	CAS Number
Tin (Sn)	7440-31-5	Lead (Pb)	7439-92-1
Antimony (Sb)	7440-36-0	Copper (Cu)	7440-50-8

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

Contact: Telephone: 814-676-0613 or 1-800-327-6533, Fax: 814-676-5565, Email: [info@kappalloy.com](mailto:info@kappalloy.com)**SECTION II: HAZARD INFORMATION**

GHS08 Health Hazard

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H340 - May cause genetic defects.

H350 - May cause cancer.

H361 - May damage fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.



GHS07

H302 - Harmful if swallowed.



GHS07



GHS08

Label Elements: Hazard Pictograms

Signal Word: **Danger**

Hazard-determining components of labeling: LEAD (Pb)

Hazard Statements:

H302 - Harmful if swallowed.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 - May cause an allergic skin reaction.

H341 - May cause genetic defects.

H351 - May cause cancer.

H361 - May damage fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

H413 - May cause long lasting harmful effects to aquatic life.

Precautionary Statements:

P260 - Do not breathe dust/fumes.

P263 - Avoid contact during pregnancy/while nursing.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P305+P351+P338 - IF IN EYES: Flush with water for at least 15 minutes to remove irritant. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.

P304+P341 - IF INHALED: Terminate exposure and remove to fresh air. Call physician; advise of chemical composition (section III).

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P302+P352 IF ON SKIN: Wash thoroughly with soap and water to remove any residue. If a rash develops, call a physician.

P501 - Dispose of contents/container in accordance with local/national/international regulations.

**PRIMARY ROUTES OF ENTRY**

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

**POTENTIAL HEALTH EFFECTS**

EYES: Moderately irritating to the eyes. Tearing and redness.

SKIN: May cause slight skin irritation.

**INHALATION and INGESTION:****ACUTE OVEREXPOSURE**

- Flu-like symptoms (nausea, constipation, headache, dizziness) - self-limiting, usually disappear within 24 hours after removal from product exposure.
- Proposition 65 Warning: THIS PRODUCT CONTAINS LEAD, WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

**SEVERE SHORT-TERM OVEREXPOSURE**

- May lead to central nervous system disorders, characterized by drowsiness, seizures, coma death. It should be recognized that exposure of this magnitude in an industrial environment is extremely unlikely.

**CHRONIC OVEREXPOSURE (symptoms and effects)**

- Systemic poisoning with symptoms of metallic taste, anemia, insomnia, weakness, constipation, abdominal pain, gastrointestinal disorders, joint and muscle pain and muscular weakness. May cause damage to the blood forming, nervous, kidneys and reproductive systems. Damage may include reduced fertility in both men and women, damage to the fetus of exposed pregnant women, anemia, muscular weakness and kidney dysfunction.

**MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE TO LEAD:**

- Diseases of the blood and blood forming organs, kidneys, nervous and reproductive systems.

**SECTION III: COMPOSITION / INGREDIENTS**

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

Component	CAS Number	OSHA PEL	ACGIH TLV	Density	Weight %
				lbs/in <sup>3</sup> & g/cm <sup>3</sup>	
Tin (Sn)	7440-31-5	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	.264 & 7.307	70
Lead (Pb)	7439-92-1	.05 mg/m <sup>3</sup> (Dust&Fume)	.15 mg/m <sup>3</sup>	.4049 & 11.332	14
Antimony (Sb)	7440-36-0	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	.240 & 6.64	12
Copper (Cu)	7440-50-8	.1 mg/m <sup>3</sup> (Dust&Fume)	.1 mg/m <sup>3</sup> (Dust&Fume)	.324 & 8.96	4

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

**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. Remove contact lenses, if easily done. Consult a physician.

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### 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: CO<sub>2</sub> 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.

**NEVER DROP WATER OR LIQUIDS INTO MOLTEN SOLDER.  
\*Do not plunge damp or wet solder bars/pieces into molten solder**

### 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/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.

See also: 29 CFR 1910.132 - 29 CFR 1910.140. *Personal Protective Equipment*  
29 CFR 1910.251 - 29 CFR 1910.257. *Welding, Cutting and Brazing*

### SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: NAIF  
Melting Point: 217-380°C / 422-716°F  
Vapor Pressure (mm Hg.): **LEAD ONLY: Health Significance ONLY >500°C**  
Vapor Density (AIR = 1): N/A  
Density: .2838 lbs/cubic inch or 7.873 g/ml  
Solubility in Water: 0 (solid)  
Evaporation Rate (Butyl Acetate = 1): N/A  
Appearance and Odor: Lustrous, silver metal; odorless / various shapes and 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

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**SECTION XI: TOXICOLOGY INFORMATION**

Tin (Sn): Elemental Tin is NOT generally considered to be toxic.  
 Lead (Pb): Chronic exposure to high levels of airborne or ingested lead may result in anemia, insomnia, weakness, constipation, nausea, and abdominal pain. See Section II for more toxicology info.

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

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

**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. General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Danger to drinking water if even extremely small quantities leak into the ground.  
**Results of PBT and vPvB assessment:** PBT: Not applicable; vPvB: Not applicable.

**SECTION XIII: DISPOSAL CONSIDERATION**

Waste Disposal Method

- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Dispose of product and packaging according to federal, state, local, and OSHA regulations.

**SECTION XIV: TRANSPORT INFORMATION**

**Ground - DOT Proper Shipping Name: Solder**  
 Not regulated for transport by US DOT.

**Air - IATA Proper Shipping Name: Solder**  
 Not regulated for air transport by IATA.

**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.	% / WEIGHT
Lead (Pb)	7439-92-1	14%

**SECTION XVI: OTHER INFORMATION**

This information must be included in all SDS 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 Safety Data Sheets (SDS) 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 SDS 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.