

SAFETY DATA SHEET

SDS Name: DuraKapp4X™ ASTM B23 Grade 2 Babbitt
 SDS Number: 504

SDS Date: 04/21/2021

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SECTION I: PRODUCT AND COMPANY INFORMATION

Product Name: DuraKapp4X™ ASTM B23 Grade 2 Babbitt w added Nickel
 Composition:

Element	CAS Number	ECHA Number
Tin	7440-31-5	231-141-8
Copper	7440-50-8	231-159-6
Antimony	7440-36-0	231-146-5
Nickel	7440-02-0	231-111-4

Company Identification: Kapp Alloy & Wire, Inc., 1 Klein Street / PO Box 1188, Oil City, PA 16301-0688
 Contact: Telephone: 814-676-0613 or 1-800-327-6533, Email: info@kappalloy.com

SECTION II: HAZARD INFORMATION

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

GHS Label Elements:

Signal word : No signal word.
 Hazard statements : No known significant effects or critical hazards.
 Precautionary statements: Not Applicable

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)
Tin (Sn)	7440-31-5	2 mg/m ³	2 mg/m ³	.264 & 7.30	88.5-88.7
Antimony (Sb)	7440-36-0	.5mg/m ³	.5mg/m ³	.240 & 6.64	7.5
Copper (Cu)	7440-50-8	.1 mg/m ³ (Dust&Fume)	.1 mg/m ³ (Dust&Fume)	.324 & 8.96	3.5
Nickel (Ni)	7440-02-0	1.5mg/ m ³	1.5mg/ m ³	.323 & 8.90	0.3 to 0.5

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 present and easy to do. Continue rinsing. 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: CO₂ or dry chemical extinguisher.

DO NOT USE WATER ON MOLTEN METAL: LARGE FIRES MAY BE FLOODED WITH WATER FROM A SAFE 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: >2200 °F/>1204 °C
Melting Point: 466 - 699 °F / 241 - 354 °C
Vapor Pressure (mm Hg.): N/A
Vapor Density (AIR = 1): N/A
Density: .2643 lbs/cu.in. and/or 7.315g/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

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Incompatibility (materials to avoid): Strong Acids, Strong Alkalis

Hazardous Decomposition Products: None; Hazardous Polymerization will not occur

SECTION XI: TOXICOLOGY INFORMATION

Tin (Sn): Elemental Tin is NOT generally considered to be toxic.

Antimony (Sb): NAIF

Copper (Cu): Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever"

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

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**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 no toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right to Know Act (EPCRA) of 1986 and 40 CFR 372

SECTION XVI: OTHER INFORMATIONThis 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. Should you need additional information, contact us.