



MATERIAL SAFETY DATA SHEET

Aladdin #82B Galvanizing Bar

DATE REVISED: June 1, 2011

Product Name: Aladdin #82B Galvanizing Bar
Distributed by: Aladdin Welding Products, Inc.
1300 Burton St. SE Grand Rapids, MI 49507
Ph: 616-243-2531 Fx: 616-243-9233
www.aladdin3in1.com welder@aladdin3in1.com
Manufacturer: Contact for more information

To the Purchaser: This MSDS contains important environmental, health, and toxicology information for your employees who have ordered this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

SECTION I - IDENTIFICATION

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

Component	CAS No.	OSHA PEL	ACGIH TLV	DENSITY (lbs./ft. ³)	% (optional)
Tin (Sn)	7440-31-5	2 mg/m ³	2 mg/m ³	.264 lbs./In. ³	30
Zinc (Zn)	7440-66-6	5 mg/m ³	5 mg/m ³	.257 lbs./In. ³	20
Lead (Pb)	7439-92-1	.05 mg/m ³ (Dust & Fume)	.15 mg/m ³ (Dust & Fume)	.4094 lbs./In. ³	50

*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 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 II - PHYSICAL DATA

N/A=Not Applicable N/E=Not Established NAIF=No Applicable Information Found

Melting Range: 177-288°C / 350-550° F
Boiling Point: NAIF
Specific Gravity(H₂O=1): .2661 lbs./in.
Appearance and Odor: Lustrous, silver metal; odorless
Vapor Pressure: N/A
Vapor Density: N/A
Evaporation Rate: N/A
Solubility in Water: 0 (Solid)

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A
Auto Ignition Temperature: N/A
Extinguisher Media: CO₂ or dry chemical extinguisher.
Flammable Limits: N/A
LEL: N/A
UEL: N/A
DO NOT USE WATER ON MOLTEN METAL Large fires may be flooded with water from a distance.
Special Fire Fighting Procedures: Use NIOSH approved self-contained breathing apparatus and full protective clothing if involved in fire.
Unusual Fire and Explosion Hazards: Flame will trace fine dust. Dust in certain concentrations can be explosive. Products of combustion are metal oxides. NEVER DROP WATER OR LIQUIDS INTO MOLTEN SOLDER. Do not plunge damp or wet solder bars/pieces into molten solder.



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SECTION IV – REACTIVITY DATA

Stability: Stable

Conditions to avoid: None

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

Hazardous Decomposition Products: None Hazardous polymerization will not occur.

SECTION V – HEALTH HAZARD DATA

Route of Entry: Inhalation-Fumes, Skin-No, Ingestion-No

Signs and Symptoms of Overexposure: Flu-like symptoms (nausea, constipation, headache, dizziness) – self limiting, usually disappear within 24 hours.

SECTION VI – EMERGENCY AND FIRST AID PROCEDURES

Ingestion: Drink large quantities of water – induce vomiting.

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

Inhalation: Terminate exposure and remove to fresh air. Call a physician, advise of chemical composition(section II).

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

SECTION VII – EFFECTS OF ACUTE EXPOSURE

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

(Zn) Zinc: Excessive inhalation of zinc oxide fumes may produce symptoms known as “zinc shakes” which are flu-like and usually cease when the individual is removed from the source.

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

Note: it is unlikely that normal exposure to this solder, while using appropriate protective equipment, would result in illness.

SECTION VII – CONTROL AND PROTECTIVE MEASURES

Respiratory Protection: NIOSH approved Dust Mask, Fume or High Efficiency Particulate Respirator

Protective Gloves: recommended

Eye Protection: Safety Goggles

Other Protective Equipment: Mechanical exhaust ventilation



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SECTION VIII – PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Steps to be taken if material is spilled or released: Solder is recyclable. Vacuuming is recommended for accumulated metal dust from saw/grind operations.

Waste disposal method: Dispose of according to federal, state, local, and OSHA regulations.

Precautions to be taken in handling and storage: Dry storage; Ambient temperature.

Other precautions/Special Handling: Wet or moist ingot(s) will present an explosion hazard when submerging in molten solder. Avoid fire risks: Always preheat ingot before charging into furnace.

SECTION IX – OPTIONAL INFORMATION

*0= Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

NFPA Rating: Health: 1 Flammability: 0 Reactivity: 0 Special: 0

HMIS Rating: Health: 1 Flammability: 0 Reactivity: 0 Special: 0

Carcinogenicity: IARC: No NTP: No OSHA: No

Note: IARC = International Association for Research on Cancer NTP= National Toxicology Program

Department of Transportation:

Proper shipping name: Solder Alloy – NOT REGULATED

Hazard Class: NAIF

ID & Packing Group Number: NAIF

ERG Guide Number: NAIF

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
Zinc(fume or dust)	7440-66-6	3-28%
Lead	7439-92-1	2.5-63%

Disclaimer: Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are NO WARRANTIES, NO REPRESENTATIONS, AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.