



MSDS 128  
July 5, 2007

**MATERIAL SAFETY DATA SHEET**

Alumite™ Solder for Aluminum, Diecast, Zinc Alloys, Pot Metal and White Metal

**Trade Name:** Alumite™ Solder  
**Manufacturer:** Weldcote Metals, Inc.  
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**Telephone:** 704-739-4115 **E-Mail:** info@weldcotemetals.com

Please retain this sheet for your files. Weldcote Metals, Inc. 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) and 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 Weldcote Metals, 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 Weldcote Metals, Inc. , nor does Weldcote Metals, Inc. assume any responsibility in connection therewith; 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.

**I-MATERIAL IDENTIFICATION/COMPONENTS**  
 \*(Hazardous components 1% or greater; Carcinogens 0.1% or greater)

<u>Component</u>	<u>CAS No.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other</u>	<u>%Optional</u>
Zinc(ZN)	7440-66-6	5mg/m <sup>3</sup> (oxide fume)	5mg/m <sup>3</sup> (oxide fume)	STEL of 10.0mg/m <sup>3</sup>	
Aluminum (AL)	7429-90-5	10 mg/m <sup>3</sup>			
Copper (CU)	7440-50-8	2 mg/m <sup>3</sup>			
Magnesium(MG)	7439-95-4	negligible>see%			

**II- PHYSICAL/CHEMICAL CHARACTERISTICS**

**Boiling Point:** 2400°F/1314°C **Melting Point:** 728°F/387°C  
**Vapor Pressure (mm Hg):** NA **Vapor Density (AIR=1):** NA  
**Specific Gravity:** 6.68  
**Solubility in Water:** 0(solid) **Evaporation Rate(Butyl Acetate =1):** NA  
**Appearance and Odor:** Silver-white-Bluish metal; odorless/various shapes and sizes/

**III-FIRE AND EXPLOSION HAZARD DATA**

**Flash point & Methods Used:** NA  
**Auto Ignition Temperature:** NA  
**Flammability Limits (in air, % by volume):** LEL: NA UEL: NA



## **SECTION VIII- CONTROL AND PROTECTIVE MEASURES**

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

**Eye Protection:** Wear approved safety glasses or welding goggles, appropriate to your procedure.

**Ventilation:** Local Exhaust: Yes Mechanical: Yes Special: Conform with your regulatory statutes.

**Protective gloves are recommended:** Especially for high temperature applications to prevent burns.

**Other:** Standard protective equipment used in soldering/applicable operations/

Comply with all local, state, federal regulations.

Good Housekeeping procedures should be maintained. Personnel should wash thoroughly before smoking or eating. Food and drink should not be consumed or tobacco products used, nor cosmetics applied in areas where exposures exist.

## **SECTION IX-PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES**

**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.

**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 Precaution/Special Handling:** Wet or moist ingot(s) will present an explosion hazard when submerged in molten solder. Avoid Fire Risks. Always preheat ingot before charging into furnace.

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

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

HMS Rating: Health=1 Flammability=0 Reactivity=0 Special=0

Good Housekeeping Procedures Should Be Maintained. Personnel Should Wash Thoroughly Before Smoking or Eating. Food And Drink Should Not Be Consumed Or Tobacco Products Used Or Cosmetics Applied In Areas Where Exposures Exist.

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