



# MATERIAL SAFETY DATA SHEET

## Aladdin #33 Low Melt Solder

DATE REVISED: June 1, 2011

**Product Name:** #33 Low Melt Solder

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](http://www.aladdin3in1.com) [welder@aladdin3in1.com](mailto:welder@aladdin3in1.com)

Manufactured by: Please contact for 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	OTHER	%(optional)
Tin (Sn)	7440-31-5	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	Molecular wt.: .264 lbs./In. <sup>3</sup>	60
Zinc (Zn)	7440-66-6	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Molecular wt.: .257 lbs./In. <sup>3</sup>	40

### SECTION II - PHYSICAL DATA

**Melting Point:** 199-343°C / 390-650° F

**Boiling Point:** Sn @ 4120° F/ 2270°C Zn @ 1663° F/ 906°C

**Specific Gravity(H<sub>2</sub>O=1):** .2633 lbs./in.

**Appearance and Odor:** Lustrous, silver metal; odorless

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Evaporation Rate:** N/A

**Solubility in Water:** Insoluble

### SECTION III - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** N/A

**Auto Ignition Temperature:** 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 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-Yes, Skin-No, Ingestion-No

**Threshold Limit Value:** Zinc Oxide fume is 8 Hr.TWA of 5.0 mg/m; STEL of 10.0 mg/m

**Emergency and First Aid Procedures:** Fresh Air & Appropriate First Aid

Tin (Sn): Not generally considered to be toxic.

Zinc (Zn): Excessive inhalation of zinc oxide fumes may produce symptoms known as “zinc chills” which are flu-like and usually cease when the individual is removed from the source. It is unlikely that normal exposure(using protective equipment) to this solder would result in illness.

#### SECTION VI – SPECIAL PROTECTION INFORMATION

**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

#### SECTION VII – SPILL or LEAK PROCEDURES

**Steps to be taken in case material is released or spilled:** Regulatory statutes address zinc spillage in any Form and Quantity. Vacuuming is recommended for accumulated metal dust.

**Waste Disposal Methods:** Zinc waste should be disposed of according to existing State & Federal Regulations.

**Storage:** Dry storage: Ambient temperature

#### SECTION VIII – SPECIAL PRECAUTIONS

**Precautions to be taken in handling and storage:** Keep Dry during storage. Wet or moist ingots will present an explosion hazard when submerged in molten solder. Avoid fire risks: always preheat ingot before charging into furnace.



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### SECTION IX – OPTIONAL INFORMATION

**Department of Transportation:**

<b>Proper shipping name:</b>	<b>Solder Alloy – NOT REGULATED</b>
<b>Hazard Class:</b>	<b>NAIF</b>
<b>ID &amp; Packing Group Number:</b>	<b>NAIF</b>
<b>ERG Guide Number:</b>	<b>NAIF</b>

**SARA Title III Program:** This product contains no toxic chemicals subject to the reporting requirements of EPCRA of 1986 and 40 CFR 372.

**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.