

SECTION I: PRODUCT AND COMPANY INFORMATION**Triple Play**

COMPONENT	CAS NO.	COMPONENT	CAS NO
ZINC (Zn)	744066-6	Copper (Cu)	7440-50-8
ALUMINUM (Al)	7429-90-5	MAGNESIUM (Mg)	7439-95-4

Welding Material Sales, PO Box 786, Geneva, IL. 60134

Emergency#: 800-424-9300

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
- Ingestion: solid metals 0not 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	Other	% optional
Zinc (Zn)	7440-66-6	5mg/m ³ (oxide & fume)	5mg/m ³ (oxide & fume)	Stel OF 10.0 mg/m ³	---
Aluminum (Al)	7429-90-5	10 mg/m ³	---	---	---
Copper (Cu)	7440-50-8	2 mg/m ³	---	---	---
Magnesium (Mg)	7439-95-4	Negligible> see %	---	---	---

PEL+ Permissible Exposure Limit; TLV = Threshold Limit value; NA= Not Applicable; NE = Not Established

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.

SECTION V: FIRE FIGTING MEASURES

- Flash point & Methods Used: N/A
- Auto Ignition Temperature: N/A
- Flammability Limits (in air % by volume)
- LEI: N/A
- UEL: N/A
- Extinguisher Media: CO² or dry chemical extinguisher

DON NOT USE WATER OF 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
Flame will trace fine zinc dust. Product of combustion is ZnO

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
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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 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: 29CFR 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: 2400°F / 1314°C
Melting Point: 728°F / 387°C
Vapor Pressure (mm Hg): N/A
Vapor Density (AIR=1): N/A
Specific Gravity: 6.68
Solubility in Water: 0 (solid)
Evaporation Rate (Butyl Acetate=1): N/A
Appearance and Odor: Silver-white-bluish-metal; odorless/various shapes and sizes.

SECTION X: STABILITY AND REACTIVITY

Stability: Stable
Conditions to avoid: None
Incompatibility (material to avoid): Strong Acids, Strong Alkalis
Hazardous Decomposition Products: None; Hazardous Polymerization will not occur

SECTION XI: TOXICOLOGY INFORMATION

Zinc (Zn): 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.

Copper (Cu): Excessive inhalation of fumes from many metals can produce an acute reaction known as “metal fume fever”. Symptoms consist of chills and fever which come on a few hours after a large exposure. Long-term effects of metal fume fever have not been noted. **PHYSIOLOGICAL EFFECTS:** Industrial exposure to copper fumes, dusts, or mists results in metal fume fever with atrophic changes in nasal mucous membranes. Chronic poisoning results in Wilson’s disease, characterized by a hepatic cirrhosis, brain damage, demyelination, renal disease, and copper deposition in the cornea.

Aluminum (Al): Inhalation of finely divided powder has been reported as a cause of pulmonary fibrosis. May be implicated in Alzheimer’s disease.

*NOTE: IT IS UNLIKELY THAT NORMAL EXPOSURE (USING APPROPRIATE PROTECTIVE EQUIPMENT) TO THIS SOLDER 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 transportation 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 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 EXPOSURE EXISTS.