

# Material Safety Data Sheet

to comply with 29 CFR 1910.1200,  
OSHA's Hazard Communication Standard

## Section I:

### Distributed By:

The Eashill Group dba/ The Eastwood Co.  
263 Shoemaker Road  
Pottstown, PA 19464

Phone: USA & Canada 1-800-345-1178 Outside USA (610) 323-2200  
CHEMTREC after hours 1-(800)-424-9300  
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## Section II: Hazardous Ingredients/Identity information

Hazardous Component	CAS #	OSHA TWA	ACGIH TWA	Other limits	Percentage
+ Zinc (as oxide)	7440-66-6	5mg/M3	5mg/M3	NE	2.5
Tin	7440-31-5	2mg/M3	2mg/M3	NE	Balance
+ Copper	7440-50-8	0.1mg/M3	0.1mg/M3	NE	15.3

Only those ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. An ingredient marked with an asterisk(\*) is also listed in 29CFR 1910.1200(D) #4 as a known or suspected cancer hazard.

+ denotes a chemical regulated as toxic by the Environmental Protection Agency (EPA) as outlined in 40CFR Part 372 (section 313)(SARA Title III)

## Section III: Physical/Chemical Characteristics

Boiling Point: 907 C (1665 F) Density: 7.55 g/cc  
Vapor Pressure (mm Hg): 1mm @ 487 C (909 °F) Melting Point: 230 C (446 F)  
Vapor Density: NA Evaporation Rate (butyl acetate=1) NAP  
Solubility in water: insoluble  
Appearance and odor: silver grey solid, odorless

## Section IV: Fire and Explosion Hazard Data

Flash Point: non flammable Flammable limits lel: NAP uel: NAP  
Extinguishing media: all  
Special fire fighting procedures: use self-contained breathing apparatus.  
Unusual Fire and Explosion Hazards: May release metal and metal oxide fumes. High concentrations of dust may present explosion hazard.

## Section V: Reactivity Data

Stability : STABLE Conditions to avoid : none  
Incompatibility (materials to avoid): oxidizing materials, acids & bases, turpentine, halogens, peroxides.  
Hazardous Decomposition or Byproducts: metal and oxides fumes.  
Hazardous Polymerization: WILL NOT OCCUR Conditions to avoid: none

## Section VI: Health Hazard Data

Routes of entry: Inhalation? yes Skin? no Ingestion? yes

Health Hazards (acute and chronic): Contact with material, fumes or dust may cause skin, eye and respiratory tract irritation. Excessive inhalation of dust and fumes may result in "metal fume fever", with the onset of symptoms taking several hours after exposure to manifest. Ingestion may cause digestive tract irritation. Ingestion of large amounts may be toxic. Repeated skin contact may result in pigmentation changes. Excessive and

repeated inhalation may result in benign pneumoconiosis or pulmonary fibrosis. Chronic exposure via inhalation and ingestion may result in liver, kidney, pancreas, respiratory tract and red blood cell effects. Studies show that potential health risks vary by individual. Always minimize exposure as a precaution.

Carcinogenicity: not determined NTP? no; IARC Monographs? no

Signs and symptoms of exposure: Inhalation: Nose & throat irritation, headache, metallic taste in mouth, flu like symptoms, greyish palor to skin. Ingestion: nausea, vomiting, cramps. Skin: dark spots, redness, rash, dryness. Eye: redness, tearing, burning, blurred vision.

Medical Conditions Aggravated by exposure: Respiratory tract, skin, blood conditions

Emergency first aid procedures:

Skin: Flush with water immediately - Treat for burns, seek medical attention if required

Eyes: Flush with water for 15 minutes - Seek medical attention

Ingestion: Drink large amount of water, induce vomiting if practical-Seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Support respiration if required.

Seek medical attention if required.

## Section VII: Precautions for Safe Handling and Use

Steps to be taken if material is released or spilled: Collect and use, if contaminated or in small particles, vacuum or collect material. Never use methods which will generate dust.

Waste Disposal Method: Never dispose of in trash. Hold for recycling or dispose of in accordance with all local, state and federal regulations.

Other Precautions: Avoid skin & eye contact, inhalation & ingestion of fumes and material.

Wash contaminated clothing before reuse. Keep away from children. Do not reuse container.

## Section VIII: Control Measures

Respiratory Protection (type): Dust mask for particulates. Metal fume type respirator for fumes.

Ventilation Local exhaust preferred Special: none

Mechanical: OK Other: NE

Protective gloves: Heat resistant during soldering

Eye protection: glasses or goggles during soldering

Other Protective Clothing or Equipment: as required to avoid contact.

Work/Hygienic Practices: Wash after use. Follow good industrial hygienic practices.

## Section IX: Additional Information

NFPA Classification (NFPA 325M, 8<sup>th</sup> edition) (Health, Flammability, Reactivity): 1-0-0

DOT Classification: non-hazardous

Other: NE

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NE = not established NA = not available NAP = not applicable