

# ZACLON LLC MATERIAL SAFETY DATA SHEET

**IDENTIFICATION****NAME**

Tin/Zinc/Copper Alloys

**GRADE**

Zaclon Galvanizing Repair Alloy

**CHEMICAL FAMILY**

N/A

**CAS NAME**

N/A

**CAS REGISTRY NO.**

N/A

**MANUFACTURER/DISTRIBUTOR**

Zaclon LLC

**TRANSPORTATION EMERGENCY PHONE**

CHEMTREC (800) 424-9300

**ADDRESS**2981 Independence Road  
Cleveland, OH 44115**PRODUCT INFORMATION PHONE**

(800) 356-7327

**PHYSICAL DATA****BOILING POINT,**

907 °C (1664 °F)

**MELTING POINT**

201-257 °C (395-495 °F)

**SPECIFIC GRAVITY**

6.46 G/CC

**VAPOR PRESSURE (mm HG)**

1 @ 1375 °C (2507 °F)

**VAPOR DENSITY**

N/A

**SOLUBILITY IN H<sub>2</sub>O**

Insoluble

**pH INFORMATION**

N/A

**EVAPORATION RATE (BUTYL ACETATE=1)**

N/A

**FORM**

Solid

**APPEARANCE**

Grey solid

**COLOR**

Grey

**ODOR**

Odorless

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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**HAZARDOUS COMPONENTS**

<b><u>MATERIAL(S)</u></b>	<b><u>CAS. NO</u></b>	<b><u>APPROXIMATE %</u></b>
Tin	7440-31-5	39-49
+ Zinc	7440-66-6	50-60
+ Copper	7440-50-8	1

+ regulated as a toxic chemical under Section 313 of Title III/SARA, and 40 CFR Part 372

**HAZARDOUS REACTIVITY**

**INSTABILITY** Stable

**INCOMPATIBILITY** Oxidizing material

**DECOMPOSITION** Toxic metal fumes > 1000 °C (1832 °F)

**POLYMERIZATION** Will not occur

**FIRE AND EXPLOSION DATA**

**FLASH POINT** N/A **FLAMMABLE LIMITS IN AIR % BY VOL.**  
**LOWER** N/A  
**AUTOIGNITION TEMPERATURE** **UPPER** N/A  
 N/A

**FIRE AND EXPLOSION HAZARDS**

**AUTODECOMPOSITION TEMPERATURE**  
 If generated, dust is explosive above 1100 °F N/A

**EXTINGUISHING MEDIA** Dry chemical, do not use water

**SPECIAL FIRE FIGHTING INSTRUCTIONS**

Use self contained breathing apparatus above 1000 °C (1832 °F)

**HEALTH HAZARD INFORMATION****PRINCIPAL HEALTH HAZARDS**

Inhalation of dust may cause irritation. Prolonged exposure may cause permanent respiratory damage. Health studies have shown that potential health risks may vary by individual. Always minimize exposure as a precaution.

**CARCINOGENICITY**

Not determined

NTP? No IARC MONOGRAPHS? No

**EXPOSURE LIMITS**

The OSHA 8-hour time weighted average (TWA) and ACGIH - TWA are as follows:

Tin -	2 MG/M3
Zinc -	5 MG/M3 Dust
Copper -	0.2 MG/M3 Fume

**SAFETY PRECAUTIONS**

Wash after use. Follow good industrial hygienic practices.

**FIRST AID**

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 amounts of water. Seek medical attention. Never give liquids to an unconscious person.  
 INHALATION: Remove to fresh air. Support respiration if required. Seek medical attention.

**PROTECTION INFORMATION****GENERALLY APPLICABLE CONTROL MEASURES**

Respiratory protection (Type): Above TLV, NIOSH approved respirators.

See 29 CFR 1910.134

Ventilation - Local exhaust preferred. Mechanical okay.

**PERSONAL PROTECTIVE EQUIPMENT**

Heat resistant gloves during soldering. Goggles or face shield during soldering. Other protective clothing or equipment as required to avoid contact.

**DISPOSAL INFORMATION****SPILL, LEAK OR RELEASE**

Collect and use, if contaminated or in small particles. Vacuum or collect material. Never use methods which generate dust.

**WASTE DISPOSAL**

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

**SHIPPING INFORMATION****DOT/IMO****PROPER SHIPPING NAME**

Not regulated as a hazardous material

**HAZARD CLASS**

Not regulated

**OTHER INFORMATION****SHIPPING CONTAINERS**

50 pound boxes

**STORAGE CONDITIONS** N/A

**NPCA-HMIS RATING**

Health 0

Flammability 0

Reactivity 0

Personal Protection Personal protection rating to be supplied by the user  
depending on use conditions

**TITLE III HAZARD CLASSIFICATION**

Acute: Yes

Chronic: Yes

Fire: No

Reactivity: No

Pressure: No

**ADDITIONAL INFORMATION AND REFERENCES**

N/A

**DATE OF LATEST REVISION/REVIEW: March 2005**

PERSON RESPONSIBLE FOR MSDS: J.L. Curry  
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