



IDENTITY (As used on Label and List) ZINC ALLOYS	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the source must be marked to indicate that.
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Section I

Manufacturer's Name Allied Metal Company	Emergency Telephone Number 312-225-2800
Address (Number, Street, State, and Zip Code) 2059 South Canal Street	Telephone Number for Information 312-225-2800
Chicago, Illinois 60616-1578	Date Prepared 01/05/09
	Signature of Preparer (optional) <i>Mark A. Dempster</i>

Section II – Hazardous Ingredients/Identify Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV Other Limits Recommended	% (optional)
ZINC 7440-66-6	5MG/M3	10MG/M3	REMAINDER
COPPER 7440-50-8	.01MG/M3	.2MG/M3	11.0% MAX
MAGNESIUM 1309-48-4	15MG/M3	10MG/M3	.25% MAX
ALUMINUM 7429-90-5	15MG/M3	10MG/M3	28% MAX
IRON 1309-37-1	10MG/M3	5MG/M3	.20% MAX
TIN 7440-31-5	2MG/M3	2MG/M3	.01% MAX
LEAD 7439-92-1	.05MG/M3	.15MG/M3	.02% MAX
CADMIUM 7440-43-9	.05MG/M3		.015% MAX

Section III – Physical/Chemical Characteristics

Boiling Point	APPROX 1663	Specific Gravity (H2O=1)	RANGE 5.0-7.0
Vapor Pressure (mm Hg.)	N/A	Melting Point	APPROX 780
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	NONE		

Appearance and Odor
 SOLID - BLUISH - WHITE - NO ODOR

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A	N/A	N/A	N/A

Extinguishing Media
 USE DRY CHEMICAL OR CARBON DIOXIDE EXTINGUISHING MEDIA

Special Fire Fighting Procedures
 ZINC DUST IS FLMMABLE WHEN SUSPENDED IN AIR AT CONCENTRATION EXCEEDING 480g/m3
 SELF CONTAINED, BEATHING APPARATUS SHOULD BE USED WHEN FIGHTING A FIRE

Unusual Fire and Explosion Hazards
 ZINC DUST IN CONTACT WITH WATER OR ACIDS EVOLVES HYDROGEN. ZINC OXIDE FUME MAY REACT
 VIOLENTLY WITH CHLORINATED RUBBER. WET METALLIC ZINC-EXPLOSIVE WHEN CHARGED IN MOLTEN

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	UNDER NORMAL CONDITION OR TRANSPORTATION, STORAGE AND USE

Incompatibility (Materials to Avoid)

MAY REACT VIOLENTLY WITH CHLORINATED RUBBER

Hazardous Decomposition of Byproducts

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI – Health Hazard Data

Route(s) of Entry:	Inhalation? YES	Skin? YES	Ingestion? NOT NORMALLY
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Health Hazards (Acute and Chronic)

INHALATION OF ZINC DUST OR ZINC OXIDE FUMES CAN CAUSE METAL FUME FEVER. SKIN AND EYE CONTACT TO DUST OR FUMES CONTAINING ZINC CAN CAUSE SKIN AND EYE IRRITATION

Carcinogenicity	NTP?	IARC Monographs? NO	OSHA Regulated? NO
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Signs and Symptoms of Exposure METAL FUME FEVER SYMPTOMS INCLUDE HEADACHE, FEVER, CHILLS, MUSCLE WEAKNESS, VOMITING, NAUSEA. SYMPTOMS USUALLY START SEVERAL HOURS AFTER EXPOSURE.

Medical Conditions

Generally Aggravated by Exposure PRE-EXISTING UPPER RESPIRATORY AND LUNG DISEASE.

Emergency and First Aid Procedures METAL FUME FEVER: REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, GIVE OXYGEN

AND CALL A PHYSICIAN.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled

IF METAL IS IN A SOLID FORM, COLLECT FOR REMELTING OR IF METAL IS IN MOLTEN STATE, ALLOW TO COOL, THEN COLLECT

FOR REMELTING.

Waste Disposal Method

NOT A WASTE. COLLECT FOR RECYCLING – NOT FEDERALLY REGULATED.

Precautions to be Taken in Handling and Storing

IF ZINC IS IN MOLTEN STATE, AVOID CONTACT WITH WATER OR MOISTURE. IF IT IS IN A SOLID STATE, BE CAREFUL OF SHARP

EDGES. STORE IN A DRY AREA, DO NOT ALLOW TO GET WET.

Other Precautions

USE SAFE FOUNDRY PRACTICES.

Section VIII – Control Measures

Respiratory Protection (Specify Type)

REQUIRED WHEN CUTTING OR WELDING, USE PARTICLE MASK WITH ADEQUATE VENTILATION.

Ventilation	Local Exhaust ONLY IF TLU'S OR PEL'S ARE EXCEEDED	Special N/A
	Mechanical (General) N/A	Other N/A

Protective Gloves

TO PREVENT CUTS OR BURNS IF METAL IS HOT. USE AS NEEDED

Eye Protection

SAFETY GLASSES AND/OR FACE SHIELDS

Other Protective Clothing or Equipment

WHEN HANDLING MOLTEN ZINC, FIRE RETARDENT CLOTHING, FACE SHIELDS, HARD HATS, GLOVES, AND SPATS RECOMMENDED

Work/Hygienic Practices

GOOD NORMAL HYGIENIC PRACTICES ARE TO BE FOLLOWED. THE INFORMATION GIVEN ON THIS FORM IS CORRECT TO THE BEST OF MY KNOWLEDGE AND GIVEN IN GOOD FAITH. THIS COMPANY ASSUMES NO LIABILITY FOR LOSS OR DAMAGES FROM THE PROPER OR IMPROPER USE OF THIS PRODUCT.