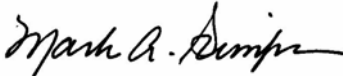




IDENTITY (As used on Label and List) SECONDARY ALUMINUM	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the source must be marked to indicate that.
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Section I	
Manufacturer's Name Allied Metal Company	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) 

Section II – Hazardous Ingredients/Identify Information				
Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV Other Limits Recommended	% (optional)	
ALUMINUM	7429-90-5	5MG/M3	5MG/M3	REMAINDER
COPPER	7440-50-8	.1 MG/M3	.2 MG/M3	8%Max
SILICON	7440-21-3	5 MG/M3	10 MG/M3	18% MAX
MAGNESIUM	7439-95-4	5 MG/M3	10 MG/M3	.5% MAX
ZINC	7440-66-6	5 MG/M3	5 MG/M3	3% MAX
IRON	7439-89-6	10 MG/M3	5 MG/M3	1.5% MAX
** NICKEL	7440-02-0	1 MG/M3	1 MG/M3	.5% MAX
MANGANESE	7439-96-5	1 MG/M3	1 MG/M3	.5% MAX
LEAD /TIN	7439-92-1 / 7440-47-3	.05/2MG/M3	15/2.0 MG/M3	.25%/ .25%MAX
TITANIUM/LITHIUM	7440-32-6/7439-93-2	15MG/M3	10 MG/M3	.25% MAX
** CHROMIUM	7440-47-3	1 MG/M3	.5MG/M3	.25% MAX

** Nickel/Chromium in percents over .10% are potential Carcinogens

Section III – Physical/Chemical Characteristics			
Boiling Point	3300 F	Specific Gravity (H2O=1)	2.70
Vapor Pressure (mm Hg.)	1 @ 1284 C	Melting Point	APP RANGE 960 /1200 F
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water NONE MOLTEN METAL REACTS VIOLENTLY IN WATER			
Appearance and Odor SOLID, SILVERY COLOR, NO ODOR			

Section IV – Fire and Explosion Hazard Data			
Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media DRY SAND, DRY TYPE EXTINGUISHER. DO NOT USE HALOGENATED EXTINGUISHING AGENTS			
Special Fire Fighting Procedures ALUMINUM INGOTS ARE NON-COMBUSTIBLE. FOR FIRES INVOLVING ALUM FINES OR CHIPS, USE DRY SAND OR CLASS D EXTINGUISHING AGENTS. DO NOT USE HALOGENATED AGENTS.			
Unusual Fire and Explosion Hazards ALUM DUST CLOUDS MAY BE EXPLOSIVE, PREVENT FORMATION OF CLOUDS. MOLTEN ALUMINUM MAY EXPLODE OR REACT VIOLENTLY ON CONTACT WITH WATER. ALSO MAY REACT VIOLENTLY WITH CERTAIN (Reproduce locally) METAL OXIDES. (ALUMINUM-COPPER, IRON-LEAD)			

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	UNDER NORMAL CONDITION OF TRANSPORTATION, STORAGE AND USE
Incompatibility (Materials to Avoid) HALOCARBONS:MERCURY:CHLORINE:CHLORATED: WATER OR ANY STRONG OXIDIZES			
Hazardous Decomposition of Byproducts METAL OXIDE FUMES			
Hazardous Polymerization	May Occur		Conditions to Avoid AVOID HALOGENATED COMPOUNDS, FINELY DIVIDED ALUMINUM MAY
	Will Not Occur	X	REACT VIOLENTLY W/HALOGENATED HYDROCARBONS.

Section VI – Health Hazard Data

Route(s) of Entry:	Inhalation? YES	Skin? NO	Ingestion? YES
Health Hazards (Acute and Chronic) ALUMINUM IS CONSIDERED A NUISANCE PARTICULATE. HIGH EXPOSURE TO ALUMINUM DUST OR FUMES MAY PRODUCE IRRITATION OR EYES AND RESPIRATORY SYSTEM. INHALATION OF EXCESS COPPER OR ZINC FUMES MAY CAUSE IRRITATION OF THE			
RESPIRATORY TRACT AND METAL FUME FEVER.			
Carcinogenicity	NTP? YES	IARC Monographs? YES	OSHA Regulated? NO

Signs and Symptoms of Exposure IRRITATION OF EYES, AND /OR THROAT

Medical Conditions

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

Emergency and First Aid Procedures IF IRRITATION OF PULMONARY SYMPTOMS DEVELOP, REMOVE FROM EXPOSURE AREA TO FRESH

AIR. CONSULT A PHYSICIAN. SKIN AND EYES, IF IRRITATION DEVELOPS, CONSULT 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 SOLID FORM, COLLECT FOR REMELTING.

IF METAL IS IN MOLTEN FORM, ALLOW TO COOL THE COLLECT IT FOR REMELTING.

Waste Disposal Method

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

Precautions to be Taken in Handling and Storing

IF METAL IS MOLTEN, AVOID CONTACT WITH WATER OR MOISTURE. IF METAL IS SOLID BE CAREFUL OF SHARP EDGES, STORE

IN A DRY AREA. DO NOT ALLOW TO GET WET.

Other Precautions

AVOID DUST ACCUMULATION WHICH MAY BE FLAMMABLE OR EXPLOSIVE.

Section VIII – Control Measures

Respiratory Protection (Specify Type)

USE RESPIRATORS ACCORDING TO OSHA REGULATIONS 29 cfr 1910.134 WHEN REQUIRED OR WHEN LIMITS ARE EXCEEDED.

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

Protective Gloves

ONLY TO PREVENT CUTS - AS NEEDED

Eye Protection

SAFETY GLASSES AND/OR FACE SHIELDS

Other Protective Clothing or Equipment

WHEN HANDLING MOLTEN AL, FIRE RETARDENT CLOTHING, FACE SHIELDS, HARD HAT, PROTECTIVE GLOVES AND SPATS ARE RECOMMENDED. ALSO SAFETY TOE SHOES.

Work/Hygienic Practices

NORMAL HYGIENIC PRACTICES ARE TO BE USED. REFER TO OSHA REQUIREMENTS 29CFN 1910.141 THIS INFORMATION IS GIVEN IN GOOD FAITH. THIS COMPANY ASSUMES NO LIABILITY FOR LOSS OR DAMAGES INCURRED FROM THE PROPER OR IMPROPER USE OF THIS PRODUCT.