

Material Safety Data Sheet



Aluminum Extruded Products

6XXX Alloys

Section I: Company & Contact Information	
Manufacturer's Name: Sapa Profiles, Inc.	Emergency Telephone Number Chemtrec: (800) 424-9300
Address: 7933 NE 21 st Avenue Portland, OR 97211	Telephone Number for Information: (503) 802-3000
	Name of Preparer: Cameron L. Helikson
	Date Prepared: May 9, 2001; Revised: April, 2007

Section II: Hazard Ingredients/Identity Information				
	CAS Number	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)	%
Aluminum (Al)	7429-90-5	5	5	>96.00
Silicon (Si)	7440-21-3	15	10	<1.01
Iron (Fe)	7439-89-6	10	5	<0.22
Copper (Cu)	7440-50-8	1.0	0.2	<0.25
Manganese (Mn)	7439-96-5	5	0.2	<0.53
Magnesium (Mg)	7439-95-4	15	10	<0.86
Chromium (Cr)	7440-47-3	1.0	0.5	<0.10
Zinc (Zn)	7440-31-5	5	5	<0.02
Titanium (Ti)	7440-32-6	15	10	<0.04
Gallium (Ga)	7440-55-3	NE	NE	<0.02
Vanadium (V)	7440-62-2	.05	.05	<0.02
Boron (B)	7440-42-8	NE	NE	<0.003

*On SARA toxic chemical list. Under section 313 of SARA, this information may not be deleted from this Material Safety Data Sheet, and must be copied and redistributed whenever this material is redistributed. This requirement is imposed by federal regulation.

Section III: Physical/Chemical Characteristics			
Boiling Point	N/A	Specific Gravity	2.7
Vapor Pressure (mm Hg.)	1 mm @ 1284 C	Melting Point	Range: Generally, 1000-1150 °F
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl Acetate =1)	N/A
Percent Volatile By Volume (%)	0	Reactivity in Water	None under normal circumstances
Solubility in Water: N/A			
Appearance and Odor: Silvery Ductile Metal/May have other color added, No Odor			

Section IV: Fire and Explosion Data			
Flash Point (Method Used): N/A	Flammable Limits	LEL: N/A	UEL: N/A
Special Fire Fighting Procedures: Do not use Water or Halogen			
Unusual Fire and Explosion Hazards: Aluminum Ingots, Billets, etc. do not present fire or explosion hazards under normal conditions. Chips, turnings, and dust may ignite. Dust clouds may explode on contact with water and may react violently with water, rust and certain metal oxides.			
Extinguishing Media: Use Class D extinguishing agents on dust, fines or molten metal. Use coarse water spray on chips and turnings. DO NOT USE: Halogenated agents on small chips, dusts or fines.			

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Section V: Reactivity Data			
Stability:	Stable	X	Conditions to Avoid: N/A
	Unstable		
Incompatibility: Finely divided aluminum may react violently with water, strong oxidizers, acid and alkalis, and halogenated compounds.			
Hazardous Decomposition or Byproducts: Reaction with water, acids or alkalis results in Hydrogen evolution.			
Hazardous Polymerization	May Occur		Conditions to Avoid: N/A
	Will Not Occur	X	

Section VI: Health Hazard Data			
Route(s) of Entry:	Inhalation? Low Risk	Skin? N/A	Ingestion? N/A
Health Hazards (Acute and Chronic): Acute: Cough, Shortness of Breath from dust inhalation. Eye irritation			
Carcinogenicity:	NTP? Yes	IARC Monographs? Yes	OSHA Regulated? No
Chromium is contained in the above hardeners at a level of 17% or less. Chromium is listed in the Annual Report of Carcinogens, as prepared by the National Toxicology Program (NTP).			
Signs & Symptoms of Exposure: Cough, Shortness of Breath from dust inhalation. Eye irritation			
Medical Conditions generally aggravated by Exposure: Respiratory Illness			
Emergency & First Aid Procedures:			
<ul style="list-style-type: none"> ▪ Inhalation: Remove to fresh air, get medical attention. ▪ Eyes: Flush with water, get medical attention. ▪ Skin: Get medical attention for severe cuts, irritations or burns ▪ Ingestion: Get medical attention if large amounts have been ingested. 			

Section VII: Precautions for Safe Handling & Use
Steps to be taken in Case Material is Released or Spilled: N/A
Waste Disposal Method: Collect scrap material for remelting.
Precautions to be taken in Handling & Storage: Handle molten aluminum according to the Aluminum Association's "Guidelines for Handling Molten Aluminum"
Other Precautions: N/A

Section VIII: Control Measures	
Respiratory Protection (Specify Type): Non Required for handling ingot, billet, etc. If dust is produced, use NIOSH approved respirator.	
Ventilation	As required to prevent exceeding PEL's or TLV's.
Protective Gloves: As needed if working with dust	Eye Protection: Safety Glasses or Goggles if working with dust.
Other Protective Clothing or Equipment: Handle molten aluminum according to the Aluminum Association's "Guidelines for Handling Molten Aluminum"	

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