



**MATERIAL SAFETY
DATA SHEET**

Simply Products Company
P.O. Box 981
Stafford, TX 77497

Trade Name (Common Name of Synonym)

Aluminum Alloy 6000 Series

Chemical Name

Aluminum

Formula

AL

I. INGREDIENTS

Material or Component

INGREDIENT	PERCENT	TLV		CAS NUMBERS
		GAS FUME DUST ppm	mg/m3	
Aluminum	min 92.0	5	10	7429-90-5
Si	max 1.8	5	10	7440-21-3
Fe	max 1.0	5		7439-99-6
Mn	max 1.1	1	50	7439-96-5
Mg	max 1.5	10		7439-95-4
Zn	max 1.5	5	10	1314-13-2
Cu	.5	.2	1	7440-50-8

Note: Aluminum alloys may be comprised of all or variations of the alloys shown here. In addition, the welding of aluminum may produce the products listed in Section VII, #6.

II. PHYSICAL DATA

Material is (At Normal Conditions):

Liquid Solid Gas Other

Appearance and Odor

Metallic appearance; no odor

Acidity / Alkalinity

pH = NA

Melting Range 1070-1210 °F

Boiling Point NA °F

Specific Gravity (H²O – 1) 2.5 – 2.9

Solubility in water (% by weight) NA

Vapor Pressure –

(mm Hg at 20°C) - NA

III. PERSONAL PROTECTIVE EQUIPMENT

Appropriate personal protective equipment is required when melting, casting, machining, forging, or otherwise processing. The nature of the processing activity will determine what form of equipment is necessary, i.e., glasses, respirator, protective clothing, and ear protection.

IV. EMERGENCY MEDICAL PROCEDURES

For **skin contact**, remove particles by thoroughly washing with soap and water.

For **eye contact**, flush with water for at least 15 minutes. Get medical attention if irritation persists.

V. HEALTH/SAFETY INFORMATION

Inhalation Not likely unless material machined, welded or remelted. Short term overexposure to welding fumes may result in discomfort such as dizziness, nausea, or dryness or irritation of throat and nose.

Ingestion	Not likely
Skin	Mechanical injury only unless material is being heated or worked. If dust is formed, wash off in flowing water.
Eyes	May irritate eyes when welding or plasma cutting.

Occupational Exposure Limits

	Auto Ignition Temperature	Flammable Limits in Air	Extinguishing Media
Flash Point NA °F	NA °F	Lower NA % Upper	Dry Powder or sand

Unusual Fire and Explosion Hazards

Damp aluminum dust may spontaneously heat with liberation of hydrogen to form explosive air Mixtures. SEE ADDITIONAL INFORMATION

Extinguishing Media Not to be Used

Do not use water or halogen on dust fires.

Stability

Stable Unstable
Conditions to Avoid
Hazardous Decomposition Products

Incompatibility (Materials to Avoid)

Anhydrous bromine
See Fire and Explosion Section.
See Fire and Explosion Section.

VI. ENVIRONMENTAL

Spill or leak procedures – NA

Waste Disposal Methods*

Use or unused product should be tested to determine hazard status and disposal requirements under Federal, State, or Local laws and regulations.

* Disposer must comply with Federal, State, and Local disposal or discharge laws.

VII. ADDITIONAL INFORMATION

1. Halogen acids and sodium hydroxide in contact with aluminum may generate explosive mixtures of hydrogen.
2. Finely divided aluminum will form explosive mixtures in air. It will also form explosive mixtures in air in the presence of bromates, iodates, or ammonium nitrate.
3. When remelting aluminum scrap, entrapped moisture or the presence of strong oxidizers such as ammonium nitrate could cause an explosion. This applied to the collection of moisture in saw cavities as well. Moisture must be driven off prior to remelting.
4. Do not touch cast aluminum metal or heated aluminum product without knowing metal temperature. Aluminum experiences no color change during heating. If metal is hot and touched, burns can result.
5. Aluminum powder must be packaged and shipped as a Flammable Solid, UN1396.
6. The welding of aluminum alloys may generate carbon monoxide, carbon dioxide, ozone, nitrogen oxides, infra-red radiation and ultra-violet radiation.

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