



# ALPASE, INC. MATERIAL SAFETY DATA SHEET

<b>Company</b> Alpase, Inc. 9750 Seaaca Street Downey, CA 90241	<b>Issue Date</b> January 1, 2008	<b>Identification</b> AL
<b>Trade Name (Common Name or Synonym)</b> Aluminum Alloys	<b>Emergency Phone Number</b> (562) 803-8675	
<b>Chemical Name</b> Aluminum	<b>Form</b> Plate	

## I. INGREDIENTS (% MAX)

	<u>Iron</u>	<u>Silicon</u>	<u>Copper</u>	<u>Manganese</u>	<u>Magnesium</u>	<u>Chromium</u>	<u>Nickel</u>	<u>Zinc</u>	<u>Titanium</u>	<u>Aluminum</u>
<b>CAS Number</b>	7439-89-6	7440-21-3	7440-50-8	7439-96-5	7439-95-4	7440-47-3	7440-02-0	7440-66-6	7440-32-6	7429-90-5
<b>Alloy</b>										
K100	1.0	1.0	1.5	.5	1.5	.07	.15	4.0	.10	Remainder
K100-S	.4	.4	.15	.49	4.25	.09	-	.07	.02	Remainder
M-1	1.2	.2	3.2	.40	1.3	.03	1.2	.15	.05	Remainder
M-5	.540	.50	.25	1.0	4.9	.25	-	.25	.15	Remainder

**Note:** In addition, other alloying elements may be present in minute quantities.

## II. PHYSICAL DATA

<b>Material is (At Normal Conditions):</b> <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	<b>Appearance and Odor:</b> Metallic Appearance - No Odor
<b>Acidity / Alkalinity</b> Approx Melting Point 1000 - 1150 Deg F    Specify Gravity (H2O = 1) -- 2.5 - 2.9 ph = NA    Boiling Point NA Deg F Solubility in water (% by weight) -- Nil	<b>Vapor Pressure (mm Hg at 20 Deg C)</b> NA

## III. PERSONAL PROTECTIVE EQUIPMENT

<b>Respiratory Protection</b> Appropriate respirator depending upon potential airborne contaminants and their concentrations. If exposure limits are reached or exceeded, use NIOSH approved respiration equipment.	<b>Hands, Arms, and Body</b> Appropriate industrial gloves.
<b>Eyes and Face</b> Safety glasses or shield as appropriate.	<b>Other Clothing and Equipment</b> As needed depending on operation and safety codes.

## IV. EMERGENCY MEDICAL PROCEDURES

Skin Contact:	Remove particles thoroughly by washing with soap and water
Eye Contact:	Flush with water thoroughly. Get medical attention if irritation persists.

## V. HEALTH / SAFETY INFORMATION

### HEALTH

For standard operations (e.g., melting, cutting, grinding), aluminum alloys present a low health risk by inhalation and are usually considered a nuisance dust. Toxicity by ingestion - none expected. Skin and eyes - not an irritant. Welding and plasma cutting of alloys high in copper (2000 and 7000 series) may present the potential for overexposure to copper fume which can result in upper respiratory tract irritation, nausea, and metal fume fever. Nickel and chromium are other alloying elements considered hazardous as fume; however, they do not present a carcinogenic or other health concerns due to their low concentrations of the chemical form in which they are present. Overexposure to lead fumes over an extended period of time can result in such toxic effects as central nervous system disturbances, renal changes, peripheral neuropathy, gastrointestinal disturbances, anemia, and chromosomal changes. Medical conditions generally aggravated by exposure would be dermatitis and pulmonary disease or disorders.

**Occupational Exposure Limits** Chromium and nickel have been identified by the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) as potential carcinogens.  
See Ingredients Section I.

### FIRE AND EXPLOSION

**Auto Ignition Temperature**

Flash Point NA Deg F NA Deg F

**Flammable Limits in Air**

Lower NA %

Upper NA %

**Extinguishing Media**

Dry powder on sand

**Fire and Explosion Hazards**

Small chips, fine turnings, and dust may ignite readily. Damp aluminum dust may spontaneously heat with liberation of hydrogen to form explosive air mixtures. Molten aluminum may explode on contact with water or certain metal oxides (e.g. oxides of copper, iron, and lead).

**Extinguishing Media Not to be Used**

Do not use water or halogen on dust fires.

### REACTIVITY

**Stability**

Stable  Unstable

**Incompatibility (Materials to Avoid)**

Reacts with strong acids to form hydrogen gas.

**Conditions to Avoid**

Aluminum products under normal conditions are stable during use, storage, and transportation. Halogen acids and sodium hydroxide in contact with aluminum may generate explosive mixtures of hydrogen. Finely divided aluminum, such as small chips and fines, will form explosive mixtures in air. It will also form explosive mixtures in air in the presence of bromates, iodates, or ammonium nitrate. Strong oxidizers cause violent reactions with considerable heat generation.

**Hazardous Decomposition Products**

See Additional Information Section VII.

## VI. ENVIRONMENTAL

**Spill or Leak Procedures :** NA

**Waste Disposal Method :**

Used or unused product should be tested to determine hazard status and disposal requirements under federal, state, or local laws and regulations.

## VII. ADDITIONAL INFORMATION

**Other Precautions:**

1. Do not touch cast aluminum metal or heated aluminum product without knowing metal temperature. Aluminum experiences no color change during heat. Burns could result.
2. Aluminum powder must be packaged and shipped as a flammable solid.
3. Hard alloy ingots in the 2000 and 7000 Series must be stress relieved to prevent explosion when sawed.
4. The welding of aluminum alloys may generate carbon monoxide, carbon dioxide, ozone, nitrogen oxides, infrared radiation and ultraviolet radiation.

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