

# MATERIAL SAFETY DATA

**Product: 6063 Aluminum Alloy Extruded Shapes**

<u>I. INGREDIENTS</u>	<u>Percent</u>	<u>Fume</u>	<u>Dust</u>
Aluminum	>93.0	5.0	10.0
Silicon	.20-0.6	5.0	10.0
Iron	.35	5.0	----
Copper	.10	.2	1.0
Magnesium	.45-0.9	1.0	----
Manganese	.10	10.0	----
Zinc	.10	5.0	10.0
Chromium	.10	.5	----

## II. PHYSICAL DATA

Physical form:	Solid	Evaporation rate:	N/A
Vapor pressured:	N/A	Specific gravity:	2/5-2.9
Boiling temp:	N/A	Water Solubility:	N/A
Melting temp:	1140-1210° F	pH:	N/A
Appearance:	Smooth silvery surface	Odor:	None

## III. PERSONAL PROTECTIVE EQUIPMENT

-Appropriate personal 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, ear protection and/or protective clothing.

## IV. EMERGENCY MEDICAL PROCEDURE

-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 HAZARD DATA

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

-Ingestion: Not likely.

-Skin: Not likely.

-Eyes: May irritate eyes when welding or plasma cutting.

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## VI. FIRE AND EXPLOSION DATA

Flash Point:	N/A
Auto Ignition Temperature:	N/A
Flammability Limits in Air:	N/A
Lower:	N/A
Upper:	N/A

-Extinguishing media: This product is nonflammable. For fires involving aluminum fines or chips, use dry sand or class D extinguishing agents. Do not use halogenated extinguishing agents.

-Unusual fire and explosion hazards: Molten aluminum may explode upon contact with water. Finely divided aluminum may explode when mixed with halogen acids, halogenated solvents or ammonium nitrate. Finely divided aluminum reacts with halogen acids, water, and sodium hydroxide to produce hydrogen gas.

## VII. REACTIVITY DATA

Stability:	Stable
Hazard Polymerization:	Will not occur
Conditions to avoid:	See sec. VI & IX
Hazard Decomposition Products:	See sec. VI & IX

## VIII. ENVIRONMENTAL

-Spill or leak procedures: N/A

-Waste Disposal Methods: Used or unused product should be tested to determine hazard status and disposal requirements under federal, state and local laws.

## IX. 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 in the presence of bromates, iodates or ammonium nitrates.
3. When remelting aluminum scrap, entrapped moisture or the presence of strong oxidizers such as ammonium nitrate could cause an explosion. For more information, request a copy of Guidelines for Handling Molten Aluminum from the Aluminum Association.
4. Do not touch heated aluminum product without knowing metal temperature. Aluminum experiences no color change during heating.
5. Aluminum powder must be packaged and shipped as a flammable solid.
6. The welding of aluminum alloys may generate carbon monoxide, carbon dioxide, ozone, nitrogen oxides, infrared and ultra-red radiation.

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The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding the accuracy or correctness.

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