

# **Earle M.** Jorgensen Company

## **Material Safety Data Sheet**

Company		Control Me	- Martin apor
	EMJ		
	<b>3050 E.</b> Birch	November 1, 1995	AL.
	Brea, California 92621		
Trade Name (Comr	non Name or many magnetic	Ellerigencia Pincon 14, man	or contact your nearest
	Aluminum Alloys		EMJ office
Chemical Name	And the second s	1-11	
<b>Aluminu</b> m		Bar, Sheet, Plate, Tubing, Structurals, and Forgings	

#### I. INGREDIENTS

Material or Component	CAS Number	the Weight	Exposure Limits	
A Company of the Comp	. 10 Mary 10 M	er gelfelt i 11. 1900e des 1900 für 1900 für hallsteden bericke i 1,500 e. 1, 41 gen ogen met dem og pyggennemen grupp	1984-85 ACGIH TUV mg/m²)   (	DSHA 1910 1000 PEL (mg/m <sup>3</sup>
Base Metal				The state of the s
Aluminum (Al)	7429-90-5	90-99.7	10.0 as metal dust and oxide:	Not established
Alloying Elements			5.0 as welding tume	Not established
Cobalt (Co)	7440-48-4	< 10 - 10 00	0.1	0.1
Copper (Cu)	7440-50-8	-: 10 - 10 00	0.2 as fume	0.1 as fume
Iron (Fe)	1309-37-1	< 10 - 10 00	5.0 as fume	10.0 as fume
Lead (Pb)	7439-92-1	< 02 - 07	0 15 as dus! and tume	0.05 as dust and lume
Magnesium (Mg)	1309-48-4	< 1.0 · 10.00	10 0 as fume	15.0 as fume
Manganese (Mn)	7439-96-5	< 1 0 - 10 00	1 0 as tume	5 0 ceiling
Silicon (Si)	7440-21-3	< 1.0 - 10 66	10 0 as total dust	Not established
Tin (Sn)	7440-31-5	< 1 0 · 10 00	2.0 as oxide and metal	2.0 as inorganic compounds
Zinc (Zn)	1314-13-2	< 1.0 - 10.00	5.0 as tume	5.0 as fume

Note: Aluminum alloys will be comprised of various combinations of the elements shown here in addition, other alloying elements may be present in minute quantities.

### II. PHYSICAL DATA

L. Marestat in 181 Member Cares	Mariana Mariana		AL.	pearance and coor	
Liquid	X Solid	Gas	Other	Metallic Appearance	No odor
Acidety/Alkaniyty		Appre	S		Vapor Pressure
j St	Melting Pi	oint 900-1201	)°F Specific Gravit	y (H <sub>2</sub> O = 1) - 2.5 - 2.9	(mm Hg at 20°C)
ph = NA	<sub>L</sub> Bolling Po	unt NA	³F  Solubility in wa	ater (% by weight) — Mil	NA NA

### III. PERSONAL PROTECTIVE EQUIPMENT

Safety glasses or shield as appropriate.	As needed depending on operation and safety codes.	
Eyes and Face	Shar Clothing and Equipment	
equipment.		
reached or exceeded use NIOSH approved respiration		
contaminants and their concentrations. If exposure limits are		
Appropriate respirator depending upon potential airborne	Appropriate gloves, especially for sheet and coil.	
Hencouter-Francisco	Harris, Arms, and Body	

#### 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

	HEALIH
are usually considered a nuisa and plasma cutting of alloys hig fume which can result in upper alloying elements considered h due to their low concentrations extended period of time can res	melting, cutting, grinding), aluminum alloys present a low health risk by inhalation and mue dust. Toxicity by ingestion - none expected. Skin and eyes - not an irritant. Welding thin copper (2000 and 7000 series) may present the potential for overexposure to copper respiratory tract irritation, nausea, and metal fume fever. Nickel and chromium are other legardous as fume; however, they do not present a carcinogenic or other health concerns of the chemical form in which they are present. Overexposure to lead fumes over an ultim such toxic effects as central nervous system disturbances, renal changes, peripheral isturbances, anemia, and chromosomal changes.
Medical conditions generally a	aggravated by exposure would be dermatitis and pulmonary disease or disorders.
One verticate Experience Limits	Chromium and nickel have been identified by the International Agency for Research on
See ingrements section	Cancer (IARC) and the National Toxicology Program (NTP) as potential carcinogens.
,	FIRE AND EXPLOSION
Flash Point NA *F	NA oF Lower NA %0 Dry powder or sand
dust may spontaneously hear explosive air mixtures. Molten	dust may ignite readily. Damp aluminum to the with liberation of hydrogen to form aluminum may explode on contact with (e.g., oxides of copper, iron, and lead).
•	REACTIVITY
Stability  XI Stable   Unstable	Incompatibility (Materials to Avoid) Reacts with strong acids to form hydrogen gas
sodium hydroxide in contact w such as small chips and fines, v	mal conditions are stable during use, storage, and transportation. Halogen acids and lith aluminum may generate explosive mixtures of hydrogen. Finely divided aluminum, vill form explosive mixtures in air. It will also form explosive mixtures in air in the presence nium nitrate. Strong oxidizers cause violent reactions with considerable heat generation.  Ction VII.  VI. ENVIRONMENTAL
NA	·

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 heating. 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.

#### Dieclaimer

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