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TO:13093435785

P.4

Copper and Brass Sales

MATERIAL SAFETY DATA SHEET ALUMINUM ALLOYS

60503-2750

-2850

-2950

COMPANY Copper and Brass Sales, Inc. 17401 Ten Mile Road East Detroit, Michigan 48021	RE-ISSUE DATE September 1, 1990	IDENTIFICATION NUMBER N/A
TRADE NAME (Common Name or Synonym) Aluminum Alloys	EMERGENCY PHONE NUMBER 313-775-7710	
CHEMICAL NAME Aluminum (does not include lithium and nickel alloys)	FORMULA Al	DOT IDENTIFICATION NUMBER N/A

I. INGREDIENTS

MATERIAL OR COMPONENT		% COMPOSITION BY WEIGHT		ACGIH TWA (mg/m³)	OSHA 1910.1000 TWA (mg/m³)	WISHA PEL (mg/m³)
BASE METAL	CAS NUMBER					
Aluminum, Al	7429-90-5	80.0-99.7		10.0, as metal dust and oxide 5.0, as welding fume	15.0, as total dust 5.0, as respirable fraction	10.0, as metal dust and oxide 5.0, as welding fume
ALLOYING ELEMENT	CAS NUMBER	MAXIMUM % COMPOSITION BY WEIGHT		ACGIH TWA (mg/m³)	OSHA 1910.1000 TWA (mg/m³)	WISHA PEL (mg/m³)
		0.1-1.0	1.0-10.0			
Chromium, Cr	7440-47-3	W, P		0.5, as metal	1.0, as metal	0.5, as metal
Cobalt, Co	7440-48-4	W		0.05, as dust and fume	0.05, as fume and dust	0.05, as fume and dust
Copper, Cu	7440-50-8	W	P	0.2, as fume 1.0, as dust	0.1, as fume 1.0, as dust	0.1, as fume 1.0, as dust
Iron, Fe	1309-37-1	W, P		5.0, as oxide fume	10.0, as oxide dust and fume	5.0, as oxide dust and fume
Magnesium, Mg	1309-48-4	W	P	10.0, as oxide fume	10.0, as total dust oxide fume 5.0, as respirable fraction oxide fume	10.0, as total dust oxide fume 5.0, as respirable oxide fume
Manganese, Mn	7439-96-5	W		1.0, as fume 3.0, STEL, as fume 5.0, as dust	1.0, as fume	5.0, Ceiling
Silicon, Si	7440-21-3		W, P	10.0, as total dust	10.0, as total dust 5.0, as respirable fraction	10.0, as total dust 5.0, as respirable fraction
Silver, Ag	7440-22-4	P		0.1, as metal	0.01, as metal dust and fume	0.01, as metal
Tin, Sn	7440-31-5		P	2.0, as oxide and metal 5.0, as oxide fume	2.0, as oxide 5.0, as oxide fume	2.0, as oxide fume 5.0, as oxide fume
Zinc, Zn	1314-13-2	W, P		10.0, STEL, as oxide fume 10.0, as total dust	10.0, as zinc oxide total dust 5.0, as zinc oxide respirable fraction	10.0, STEL, as oxide fume

Key: W = Wrought aluminum (fabricated products)
P = Prime and ingot hardener aluminum
STEL = Short Term Exposure Limit
TWA = Time Weighted Average
PEL = Permissible Exposure Limit

Note: Aluminum alloys may be comprised of all or variations of the alloys shown here. In addition, the welding of aluminum alloys may produce the products listed in Section VII, #7. See Section VII, #8 for comments concerning aluminum scrap.

II. PHYSICAL DATA

MATERIAL IS (At Normal Conditions). <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other		APPEARANCE AND ODOR Metallic appearance; no odor	
ACIDITY/ALKALINITY pH = NA	Melting Point 440-1215 °F Boiling Point NA °F	Specific Gravity (H ₂ O = 1) 2.5 - 2.9 Solubility in water (% by weight) nil	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.