



REVISION DATE: March 14, 2012

MSDS

Emergency and Information Phone: (434) 964-0440
IDENTIFICATION NUMBER: ALUM-1

TRADE NAME (common name or synonym): ALUMINUM ALLOY EXTRUSION			
CHEMICAL NAME Aluminum	FORMULA Al	DOT IDENTIFICATION NUMBER: NA	
MATERIAL OR COMPONENT: BASE MATERIAL		I. INGREDIENTS	
	% COMPOSITION BY WEIGHT	CAS #	OSHA 1910.1000**
ALUMINUM	97.7-99.7	7429-90-5	<small>*TLV = Threshold Limit Value **PEL = Permissible Exposure Level TWA = Time Weighted Average</small> 1984-85 ACGIH * TLV (mg/M ₃) 10.0 as metal dust and oxide 5.0 as welding fume
ALLOY ELEMENT (%)			
Magnesium <1.0 Zinc <1.0 Vanadium <1.0	Manganese <1.0 Chromium <1.0	Copper <1.0 Baron <1.0	Titanium <1.0 Iron <1.0 Silicon <1.0 Nickel <1.0
II. PHYSICAL DATA			
MATERIAL IS (AT NORMAL CONDITIONS): ___ Liquid <input checked="" type="checkbox"/> Solid ___ Gas ___ Other		APPEARANCE AND ODOR: Metallic Appearance, No odor	
ACIDITY/ALKALINITY Ph = NA	Melting Point 900-1200°F Boiling Point NA°F	Specific Gravity 2.7 (H ₂ O = 1) Solubility in Water None (% by Weight)	VAPOR PRESSURE (mm Hg at 20° C) NA
III. PERSONAL PROTECTIVE EQUIPMENT			
Provide adequate ventilation to meet exposure limits (Section 1). A NIOSH approved respirator should be worn when the exposure limit is or may be exceeded. Other personal protective equipment, ie., glasses, gloves, clothing, ear protection, will be determined by the nature of the processing activity (grinding, welding, machining, etc.)			
IV. EMERGENCY MEDICAL PROCEDURES			
Skin Contact - Remove particles by thoroughly washing with soap and water. Eye Contact - Flush with water for at least 15 minutes, lifting eyelids occasionally. Get medical attention if irritation persists.			
H E A L T H	V. HEALTH/SAFETY INFORMATION		
	Due to the alkalinity of dross, eye, skin, and upper respiratory tract irritation can occur during handling. Inhalation of aluminum presents a low health risk. It should be treated as a nuisance dust. (ACGIH)		
	OCCUPATIONAL EXPOSURE LIMITS: See section 1		
E X P L O S I O N S A N D N	FLASH POINT NA ° F	AUTO IGNITIONS TEMP NA ° F	FLAMMABLE LIMITS IN AIR Lower NA% Upper NA% EXTINGUISHING MEDIA
	FIRE AND EXPLOSION HAZARDS Dust clouds may be explosive; Prevent dust cloud See Additional Information		EXTINGUISHING MEDIA NOT TO BE USED Do not use water or halogens.
R E A C T I V I T Y	STABILITY: <input checked="" type="checkbox"/> Stable _____ Unstable		INCOMPATIBILITY (MATERIALS TO AVOID) Water, acids, alkalines, & halogens See Additional Information
	CONDITIONS TO AVOID: Remove any source of ignition, may heat spontaneously when damp		
	HAZARDOUS DECOMPOSITION PRODUCTS: Metal oxides, hydrogen (see additional information)		
VI. ENVIRONMENTAL			
SPILL OR LEAK PROCEDURES: Minimize dust generation during clean-up; place material in clean, dry containers (drums, dumpster, truck etc.). Never employ water			
WASTE DISPOSAL METHOD: Material should be recycled to reclaim metal content. If not recycled, the material should be tested to determine the hazard status, and disposal requirements under federal, state, and local laws or regulations.			
VII. ADDITIONAL INFORMATION			
1. Dross is reactive with water and moist air. Reaction Produces ammonia and hydrogen. Water/aluminum mixtures may be hazardous when confined. 2. Acids and alkalines in contact with dross may generate explosive mixture of hydrogen 3. Strong oxidizers in contact with dross may cause violent reaction with heat generation. 4. Halogenated compounds may react violently with aluminum dross. 5. Dross should be dry and cool prior to shipment. 6. Shipment should be in closed containers, covered trailers, or covered hopper cars.			
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