E-Mail: sds@finemetalscorp.com www.FineMetalsCorp.com

15117 Washington Highway P. O. Box 1055 Ashland VA Phone: (804) 227-3381 Fax: (804) 227-3404

CHEMTREC: (800) 424-9300 Poision Center: (800) 562-8236

# Safety Data Sheet

## **Section 1: Product and Company Information**

Aluminum Product Name:

Fine Metals Corporation Company:

15117 Washington Hwy Ashland, VA 23005

For more information call: 1-804-227-3381

(Monday - Friday 9-4:30)

In case of emergency: Transportation (Chemtrec) 1-800-424-9300

Poison Center: 1-800-562-8236

(24 hours/day, 7 days/week

### Section 2: HAZARD IDENTIFICATION

#### This material is not considered hazardous and is not classified under GHS

### **Emergency Overview**

Emergency In the solid form this material is not generally considered hazardous. However, if your process involves grinding, melting,

welding, cutting or any other process that causes a release of dust or fume it may be hazardous. Routes include eye, skin

and ingestion.

# Hazard Statements: None.

# **Precautionary Statements:**

Prevention: None. Respnse: None.

#### Appearance/Form:

Form: Solid

Color: Light silvery-white

Odor: None

Hazard Summary: Not considered a hazard as sold. Dust may be fire or explosion hazard if concentrations are high enough.

#### **Acute Health Effects**

Skin: May cause skin irritation.

Eyes: Dust and fumes from processing can cause irritation

Ingestion: Low ingestion hazard in normal use.

Inhalation: May be harmful if inhaled. May cause respiratory irritation.

Chronic Exposure: Aluminum dust/fines and fumes are a low health risk by inhalation. May cause upper respiratory tract irritaion. Aluminum

dust should be treated as a nuisance dust as defined by the ACGIH. Long term exposure to high levels of aluminum dusts

may lead to pulmonary function impairment, dermititis, eczema and may cause liver and kidney damage.

Aggravated Medical Dust and fume from processing may aggravate: Asthma, chronic pulmonary disease and skin rashes.

Conditions:

Carcinogenicity: Not listed as a human carcinogen.

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# Section 3: Composition/Information on Ingredients

Chemical Name CAS-No. Reach #

Aluminum 7429-90-5 Not available 231-072-3 >99 wt%

#### Section 4: FIRST AID MEASURES

Eye Contact: Immediately flush with water for at least 15 minutes. Call a physician if irritation persists. Skin Contact: Wash contaminated area with plenty of water. Call a physician if irritation develops or persists

Inhalation: Remove to fresh air; if breathing becomes difficult, give oxygen. Call a physician Ingestion: Obtain immediate medical attention. Low ingestion hazard in normal use.

### **Section 5: FIRE FIGHTING MEASURES**

Suitable extinguishing Media: Use Class D extinguishing agents, dry sand or sodium chloride on fire.

Unsuitable extinguishing media: Do not use water, carbon dioxide, graphite or halogenated extinguishing agents.

Specific hazards during firefighting: Dusts at sufficient concentrations can form explosive mixtures with air. Chips, fines and dust in contact with

can generate flammable/explosive hydrogen gas. Moisture combined with molten metal can be explosive.

Special protective equipment for As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH) approved or equivalent) and firefighters: full protective gear. Remove containers from fire area if without risk.

# Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Practice good chemical hygiene. Avoid contat with skin and eyes.

**Environmental Precautions:** Do not release to environment.

Methods for Cleaning Up: Do not create dust. Mix with sand and put into approved drums. Collect scrap for recycling.

#### Section 7: HANDLING AND STORAGE

Handling: Wash thoroughly after using, particularly before eating or smoking. Avoid breathing dust or fumes. Do not ingest. Avoid

formation of dust. Hot and cold aluminum are not visually different. Hot aluminum does not glow red.

Storage: Store in cool dry area away from incompatibles. Keep containers tightly closed when not in use.

# Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation or other means to maintain employee exposure as far below limits as possible

# **Component Exposure Limits**

<b>Component</b> Aluminum	Location ACGIH TWA (Total)	<b>Value</b> 10
	ACGIH TWA (Respirable)	5
	ACGIH TLV-TWA	1
	NIOSH REL TWA (Total)	10
	NIOSH REL TWA	5
	OSHA OEL TWA (Total)	15
	OSHA OEL TWA	5
	Europe TWA (Inhalable)	10
	Europe TWA (Respirable)	5
	Denmark TWA (Inhalable)	10

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Denmark TWA (Respirable)	2
Germany TWA (Inhalable)	4
Germany TWA (Respirable)	1.5
Australia, NZ, Singapore	10
UK WEL TWA (Inhalable)	10
UK WEL TWA (Respirable)	4

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended

exposure limits.

Respiratory Protection: Not normally needed. If ventilation is inadequate and this material is handled at elevated temperatures or dust/fumes/mists

are generated a NIOSH/MSHA approved air purifying respirator with a manufacturers approved cartridge or canister may be

permissible under certain circumstances.

**Eye/Face:** Wear safety glasses or goggles as appropriate to the task performed.

**Skin Protection:** Lab coat, apron, coveralls or other protective clothing. **Work Hygienic Practices:** Practice good chemical hygiene during and after use.

Comments: None

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Odor: None

Color: Silvery grey
Melting Point: 1220° F (660° C)
Boilling Point: 2327-2476° C
Vapor Pressure: 1 mm at 1284° C
Vensity (air = 1): Not applicable

Vapor Density (air = 1): Not applicable Evaporation Rate: Not applicable Solubility In Water: Insoluble Specific Gravity (water = 1): 2.70

Atomic Weight: 26.98

% Volatility By Volume: No information available

Density: 2.70 g/cm3

# Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of use, storage, and transportation.

Incompatible Materials: Oxidizing agents, Strong Acids, Mercury, Strong Bases, Halocarbons and Halogens. Powder is incompatible with water.

Hazardous Decomposition Oxides of aluminum. Reacts with acids and some caustic solutions to form hydrogen.

Products:

Possibility of Hazardous No information available

Reactions:

# Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Dermal LD50 - not available Oral LD50 - Not available Inhalation LC50 - Not available. Acute overexposures to fumes can

cause the accumulation of fluid in the lungs and reduced ability of the blood to carry oxygen. These effects can be delayed

up to 1-2 weeks.

Chronic Toxicity: Aluminum may be implicated in Alzheimers disease. Inhalation of aluminum containing dusts may cause pulmonary disease.

Long term exposure to high levels of aluminum dusts may lead to pulmonary function impairment, dermititis, eczema and

may cause liver and kidney damage.

Reproductive Toxicity: No information available.

Mutagenicity: No known effect.

Carcinogenicity: Not listed by IARC, NTP or OSHA

Other: None available

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### Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: 96 hour LC50: .120 mg/L (Oncorhynchus mykiss). Aluminum is only sparingly soluble in water between pH 6 and 8;

thus aluminum concentration in most natural waters is extremely low.

Persistence/Degradability: Aluminum cannot be destroyed in the environment. It can only change its form or become attached to or separated

from particles

Bioaccumulation/Accumulation: 56 day Bioconcentration Factor (BCF) = 36 (Salvelinus fontinalis)

Mobility in Environment: Not available

#### Section 13: DISPOSAL CONSIDERATIONS

Waste Classification: Material may be recyclable.

All disposal activities must comply with federal, state, provincial and local regulations.

#### Section 14: TRANSPORT INFORMATION

US DOT (ground): Not regulated ICAO/IATA (air): Not regulated IMO/IMDG (water): Not regulated Special Provisions: None

#### Section 15: REGULATORY INFORMATION

#### UNITED STATES

SARA Title III (Superfund Amendments and Reauthorization Act) 313 Reportable Ingredients: No

TSCA (Toxic Substance Control Act) status: Not regulated.

### STATE REGULATIONS

The following components appear in one or more of the following states hazardous substances

Component	CAS#	CA	MA	MN	NJ		
Aluminum	7429-90-5	No	Yes	No	Yes	Yes	No

**California Proposition 65:** This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

**CANADA** 

WHMIS (Workplace Not regulated.

Hazardous Materials Information System):

Domestic Substance List All components of this product are included in inventory, exempt, or notified.

(Inventory):

# **GENERAL COMMENTS**

All components of this product are included in inventory, exempt, or notified: USA TSCA, Philippines PICCS, Korean KECL, European EINECS, Canadian DSL

# **Section 16: OTHER INFORMATION**

Information Contact: sds@finemetalscorp.com

**Issue Date**: 6/1/1996 **Revision Date**: 1/1/2015

HMIS®(II)		NFPA		
Health:	0			
Flammability:	0	C	)	
Reactivity:	0	0	0	
PPE:	В			

# Ratings range from 0 (no hazard) to 4 (severe hazard)

The information contained in this SDS is believed to be correct, but is not all inclusive and shall be used only as a guide. Fine Metals Corporation shall not be liable for any damage resulting from handling or from contact with the product listed in the SDS. Any comments or questions should be directed to:

Safety Manager Fine Metals Corporation 15117 Washington Highway P O Box 1055 Ashland VA 23005 (804) 227-3381

Aluminum Date: