Aluminum Metal



Section 1 **Product Description**

Product Name: Aluminum Metal

Recommended Use: Science education applications

Synonyms: None known

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

Acute Toxicity Oral Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity **Acute Toxicity Dermal Contains** 100 % of the mixture consists of ingredient(s) of unknown toxicity **Acute Toxicity Inhalation Gas** 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Vapor

Contains

Acute Toxicity Inhalation Dust/Mist

Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

Composition / Information on Ingredients Section 3

Chemical Name CAS# <u>%</u> Aluminum, Metal 7429-90-5 100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eves: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Sand Talc Sodium Chloride **Extinguishing Media:**

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Avoid Dusting. May become explosive when dispersed in air.

Hazardous Combustion Products: Aluminum Compounds

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is

No adverse health affects expected from the clean-up of spilled material. Follow personal Released or Spilled:

protective equipment recommendations found in Section 8 of this (M)SDS. No special spill clean-up considerations. Collect and discard in regular trash.

Section 7 Handling and Storage

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Handling: Do not ingest or take internally.

Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

> **ACGIH OSHA PEL**

Chemical Name (TWA) (STEL) (TWA) (STEL) N/A 1 mg/m3 TWA Aluminum, Metal 15 mg/m3 TWA N/A

(respirable fraction) (total dust); 5 mg/m3 TWA (respirable fraction)

Control Parameters

Eye Protection:

Engineering Measures: Local exhaust ventilation, process enclosures, or other engineering controls are

necessary when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

None required where adequate ventilation is provided. If airborne concentrations are Respirator Type(s):

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective Skin Protection:

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

Gloves: No information available

Physical Data Section 9

Formula: Al Vapor Pressure: 0.00013 hPa at 974 °C

Molecular Weight: 26.98 Evaporation Rate (BuAc=1): No data available Appearance: Silver Metallic Solid Vapor Density (Air=1): No data available

Odor: None Specific Gravity: 2.7

Odor Threshold: No data available Solubility in Water: Practically Insoluble pH: No data available Log Pow (calculated): No data available Melting Point: 660 C Autoignition Temperature: No data available **Boiling Point: 2467 C Decomposition Temperature:** No data available

Flash Point: No data available Viscosity: No data available

Flammable Limits in Air: No data available Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Exposure to moisture

Incompatible Materials: Chlorine, Halogenated Hydrocarbons, Strong acids, Strong alkalies, Strong oxidizing

agents, Halogens, Charcoal, Iodine Monochloride

Hazardous Decomposition Products: Aluminum Compounds

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Respiratory disorders. Encephalopathy, Impaired Kidney Function, Respiratory Irritation

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 **Dermal LD50** Inhalation LC50

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Aluminum 7429-90-5 Not determined Not determined Not determined

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAAluminum7429-90-5Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: No data available Chronic: No data available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: Chemically Transformed

Bioaccumulation: No data

Degradability: Naturally occuring element. Does not biodegrade.

Other Adverse Effects: No data

Chemical NameCAS NumberEco ToxicityAluminum7429-90-5Not available

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: Not regulated for transport by US DOT. Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Aluminum, Metal 7429-90-5 Aluminum No No No No No

Section 16 Additional Information

Revised: 09/03/2014 Replaces: 09/03/2014 Printed: 09-11-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

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ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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