

# Safety Data Sheet

## 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:**

### Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u> | <u>CAS #</u> | <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.  
**Eyes:** 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

**Extinguishing Media:** Sand Talc Sodium Chloride  
**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 Released or Spilled:** No adverse health affects expected from the clean-up of spilled material. Follow personal 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

**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

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| Chemical Name                               | ACGIH                                                                                                                                                                                                                                                                                                                                                              | OSHA PEL                                                                     |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
|                                             | (TWA) (STEL)                                                                                                                                                                                                                                                                                                                                                       | (TWA) (STEL)                                                                 |
| Aluminum, Metal                             | 1 mg/m3 TWA<br>(respirable fraction)<br>N/A                                                                                                                                                                                                                                                                                                                        | 15 mg/m3 TWA<br>(total dust); 5<br>mg/m3 TWA<br>(respirable fraction)<br>N/A |
| <b>Control Parameters</b>                   |                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |
| <b>Engineering Measures:</b>                | Local exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure.                                                                                                                                                                                                              |                                                                              |
| <b>Personal Protective Equipment (PPE):</b> | Lab coat, apron, eye wash, safety shower.                                                                                                                                                                                                                                                                                                                          |                                                                              |
| <b>Respiratory Protection:</b>              | No respiratory protection required under normal conditions of use.                                                                                                                                                                                                                                                                                                 |                                                                              |
| <b>Respirator Type(s):</b>                  | None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.                                                                                                                                                                                         |                                                                              |
| <b>Eye Protection:</b>                      | Wear chemical splash goggles when handling this product. Have an eye wash station available.                                                                                                                                                                                                                                                                       |                                                                              |
| <b>Skin Protection:</b>                     | Avoid skin contact by wearing chemically resistant gloves, an apron and other protective 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 work. |                                                                              |
| <b>Gloves:</b>                              | No information available                                                                                                                                                                                                                                                                                                                                           |                                                                              |

## Section 9 Physical Data

|                                                   |                                                      |
|---------------------------------------------------|------------------------------------------------------|
| <b>Formula:</b> Al                                | <b>Vapor Pressure:</b> 0.00013 hPa at 974 °C         |
| <b>Molecular Weight:</b> 26.98                    | <b>Evaporation Rate (BuAc=1):</b> No data available  |
| <b>Appearance:</b> Silver Metallic Solid          | <b>Vapor Density (Air=1):</b> No data available      |
| <b>Odor:</b> None                                 | <b>Specific Gravity:</b> 2.7                         |
| <b>Odor Threshold:</b> No data available          | <b>Solubility in Water:</b> Practically Insoluble    |
| <b>pH:</b> No data available                      | <b>Log Pow (calculated):</b> No data available       |
| <b>Melting Point:</b> 660 C                       | <b>Autoignition Temperature:</b> No data available   |
| <b>Boiling Point:</b> 2467 C                      | <b>Decomposition Temperature:</b> No data available  |
| <b>Flash Point:</b> No data available             | <b>Viscosity:</b> No data available                  |
| <b>Flammable Limits in Air:</b> No data available | <b>Percent Volatile by Volume:</b> No data available |

## Section 10 Reactivity Data

|                                          |                                                                                                                                     |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity:</b>                       | Not generally reactive under normal conditions.                                                                                     |
| <b>Chemical Stability:</b>               | Stable under normal conditions.                                                                                                     |
| <b>Conditions to Avoid:</b>              | Exposure to moisture                                                                                                                |
| <b>Incompatible Materials:</b>           | Chlorine, Halogenated Hydrocarbons, Strong acids, Strong alkalies, Strong oxidizing agents, Halogens, Charcoal, Iodine Monochloride |
| <b>Hazardous Decomposition Products:</b> | Aluminum Compounds                                                                                                                  |
| <b>Hazardous Polymerization:</b>         | Will not occur                                                                                                                      |

## Section 11 Toxicity Data

|                          |                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------|
| <b>Routes of Entry</b>   | Inhalation and ingestion.                                                               |
| <b>Symptoms (Acute):</b> | Respiratory disorders, Encephalopathy, Impaired Kidney Function, Respiratory Irritation |
| <b>Delayed Effects:</b>  | No data available                                                                       |

|                         |                   |                  |                    |                        |
|-------------------------|-------------------|------------------|--------------------|------------------------|
| <b>Acute Toxicity:</b>  |                   |                  |                    |                        |
| <b>Chemical Name</b>    | <b>CAS Number</b> | <b>Oral LD50</b> | <b>Dermal LD50</b> | <b>Inhalation LC50</b> |
| Aluminum                | 7429-90-5         | Not determined   | Not determined     | Not determined         |
| <b>Carcinogenicity:</b> |                   |                  |                    |                        |
| <b>Chemical Name</b>    | <b>CAS Number</b> | <b>IARC</b>      | <b>NTP</b>         | <b>OSHA</b>            |
| Aluminum                | 7429-90-5         | Not listed       | Not listed         | Not listed             |

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## Chronic Effects:

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| <b>Mutagenicity:</b>         | No evidence of a mutagenic effect.                  |
| <b>Teratogenicity:</b>       | No evidence of a teratogenic effect (birth defect). |
| <b>Sensitization:</b>        | No evidence of a sensitization effect.              |
| <b>Reproductive:</b>         | No evidence of negative reproductive effects.       |
| <b>Target Organ Effects:</b> |                                                     |
| <b>Acute:</b>                | No data available                                   |
| <b>Chronic:</b>              | No data available                                   |

## Section 12

## Ecological Data

|                               |                                                             |
|-------------------------------|-------------------------------------------------------------|
| <b>Overview:</b>              | This material is not expected to be harmful to the ecology. |
| <b>Mobility:</b>              | No data                                                     |
| <b>Persistence:</b>           | Chemically Transformed                                      |
| <b>Bioaccumulation:</b>       | No data                                                     |
| <b>Degradability:</b>         | Naturally occurring element. Does not biodegrade.           |
| <b>Other Adverse Effects:</b> | No data                                                     |

|                      |                   |                     |
|----------------------|-------------------|---------------------|
| <b>Chemical Name</b> | <b>CAS Number</b> | <b>Eco Toxicity</b> |
| Aluminum             | 7429-90-5         | Not available       |

## Section 13

## Disposal Information

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal Methods:</b>       | Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. |
| <b>Waste Disposal Code(s):</b> | Not Determined                                                                                                                                        |

## Section 14

## Transport Information

|                                           |                                          |
|-------------------------------------------|------------------------------------------|
| <b>Ground - DOT Proper Shipping Name:</b> | <b>Air - IATA Proper Shipping Name:</b>  |
| Not regulated for transport by US DOT.    | Not regulated for air transport by IATA. |

## Section 15

## Regulatory Information

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| <b>TSCA Status:</b> | All components in this product are on the TSCA Inventory. |
|---------------------|-----------------------------------------------------------|

| Chemical Name   | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
|-----------------|------------|------------|----------|-----------|-----------|---------------|
| Aluminum, Metal | 7429-90-5  | Aluminum   | No       | No        | No        | No            |

## Section 16

## Additional Information

**Revised: 09/18/2015**

**Replaces: 09/18/2015**

**Printed: 10-29-2015**

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

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