Aluminum Powder
Atomized
Safety Data Sheet

1. Product and Company

Product name: Aluminum
Synonym: Aluminum Powder
CAS-No.: 7429-90-5
Company: Hummel Croton Inc.
10 Harmich Rd.
South Plainfield, NJ 07080
Telephone: 908-754-1800
Fax: 908-754-1815
Emergency telephone number
Emergency Phone #: ChemTel US: 1-800-255-3924
ChemTel International: +1-813-248-0585

HMIS Rating

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>E</td>
</tr>
</tbody>
</table>

2. Hazards

GHS Label elements

GHS Classification: Flammable Solid (Category 1), H220

Pictogram(s)

Signal word DANGER

Hazard statement(s)
H228 Flammable solid.
Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P370 Use for extinction: Special powder for metal fires.
P378 Use for extinction: Dry sand.

**Hazards not otherwise classified (HNOC) or not covered by GHS**

Risk of dust explosion.

**3. Composition/Ingredients**

**Substance**

<table>
<thead>
<tr>
<th>Formula</th>
<th>Molecular weight</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al</td>
<td>26.98 g/mol</td>
<td>7429-90-5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS</th>
<th>%</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>98-100%</td>
<td>15 mg(Al)/m³</td>
<td>15 mg(Al)/m³</td>
</tr>
</tbody>
</table>

**4. First Aid**

**First Aid For Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**First Aid For Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

**First Aid For Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**First Aid For Ingestion:** If swallowed, call a physician immediately.

**5. Fire Data**

Flammability: Flammable
Flash Point: Not Applicable
Auto Ignition: Not determined
Flammable Limits: LEL%: 0.04 oz/ft³ UEL%: N/A
Extinguishing Media: Dry chemical powder. Dry sand. DO NOT USE WATER.
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Fire/Explosion Hazards: Emits toxic fumes under fire conditions. Do not expose to air and fire. This material, like most materials in powder form, is capable of creating a dust explosion. DO NOT DISTURB METAL WHILE EXTINGUISHING FIRE.

**6. Accidental Release**
Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

7. Handling And Storage

Storage Temperatures: Store at ambient temperature.
Shelf Life: Unlimited in tightly sealed container
Special Sensitivity: None
Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash

8. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.
Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.
Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.
Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.
Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

9. Physical And Chemical Properties

Physical Form: Powder or Flitter
Color: Silver
Odor: Odorless
Molecular Weight: 26.98
Boiling Point: 2630°C
Melting/Freezing Point: 660°C
Solubility In Water: Insoluble
Specific Gravity: 2.6

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur.
Incompatibilities: Acids, acid chlorides, alkalines, oxidizing agents, halogens, air sensitive, moisture sensitive.
Instable Conditions: Excessive temperatures (see incompatibilities).
Decomposition Temperature: Not established.

11. Toxicological Information

RTECS Number: BD0330000
Routes Of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.
Toxicity Data: LD50: Not established.
Chronic Toxic Effects: Not known to cause any long term harmful health effects.
Acute Toxic Effects: Mild irritant to skin, eyes, and respiratory system.

12. Ecological Information

Ecotoxicity: This product may cause adverse environmental effects. Employ management practices which prevent material from contacting stormwater, entering waterway, or otherwise impacting plant and animal species.

13. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

14. Transportation Information

Proper Shipping Name: Aluminum Powder
UN Number: 1309
Class: 4.1
P.G.: II
Label Code: 4.1

15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List
California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances which the state of California has found to cause cancer, birth defects, or other reproductive effects.
SARA 313 Title III:
   Section 320 Extremely Hazardous Substances: None
   Section 311/312 Hazardous Categories: None
   Section 313 Toxic Chemicals: This product may be subject to reporting requirement.
   (Contains 100% Al)

16. Other Information

Prepared By: Michael Richard
Date: March 20, 2018
Reason For Issue: Emergency Contact Update

No warranty, expressed or implied, or merchantability, fitness for a particular purpose or otherwise is made, except that the products herein discussed comply with the chemical description on the labels. Buyer assumes risks of the use, storage and handling. Hummel Croton shall not be liable for any incidental or consequential damages arising directly or indirectly in connection with the purchase, use, storage or handling of this product. The information contained herein is, to the best of our knowledge, true and accurate. However, all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. We disclaim any liability incurred in connection with the use of these data or suggestions. This information is not to be taken as a license to operate under, or a recommendation to infringe any patent(s). The observance of all regulations and patents is the responsibility of the user. No agent, representative or employee of this company is authorized to vary any items of this notice.