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In Case Of Emergency Call ChemTrec
(800) 424-9300

Aluminum Powder Safety Data Sheet

1. Product and Company

Product name: Aluminum

Synonym: Aluminum Powder

CAS-No.: 7429-90-5

Company: EnvironMolds LLC
18 Bank Street / Suite1
Sumit, New Jersey 07901

Telephone: 908-273-5401
Fax: 908-273-9256

Emergency telephone number

Emergency Phone #: ChemTrec US: 1-800-424-9300

HMIS Rating	
Health	0
Flammability	4
Reactivity	1
Personal Protection	E

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

Formula: Al
 Molecular weight: 26.98 g/mol
 CAS-No.: 7429-90-5

Material	CAS	%	OSHA	ACGIH
Aluminum	7429-90-5	98-100%	15 mg(Al)/m ³	15 mg(Al)/m ³

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.

Decomposition Products: Toxic fumes of aluminum oxide. Could react with water, acids and alkalis to form combustible hydrogen gas.

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: EJM

Date: April 20, 2017

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