

MSDS SHEET
Aluminum Flake Powder

Section I. Chemical Product and Company Identification Supplier:

Star Molecule, LLC
2910 Bush Drive
Melbourne, Florida 32935

- Chemical Name: Aluminium
- Synonym: Aluminum Flake Powder
- CAS Number: 7429-90-5
- Chemical formula: Al

Section II. Composition and information on ingredients

Chemical name	CAS#	Percent	OSHA
Aluminium (Al) /cu.m	7429-90-5	78-99%	15mg(Al)/cu.m
Aluminium Oxide 10mg/cu.m	1344-28-1	0.5-20%	10mg/cu.m
Stearic Acid Established	51-11-4	0.5-2%	Not established

Section III Identification:

– Acute Health Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

– Chronic Health Effects: This product has no known chronic effects. Repeated or prolonged exposure to this product has no known compound is not known to aggravate medical conditions.

Section IV. First Aid Measures

– 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.

Section V. Fire and Explosion Data

- Flammability: Non-Flammable
- Flash Points: Not Applicable
- Auto-Ignition: 1400 °F 9759 °C)
- 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 POWDER WHILE EXTINGUISHING THE FIRE.

Section VI. Accidental Release Measures

– 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.

Section VII. Handling and Storage

– Storage Temperatures: Store at ambient temperature

– Shelf Life: Unlimited in tightly closed container.

– Special Sensitivity: None

– Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

– Eye Protection: Safety glasses or goggles.

– Skin Protection: PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.

– Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, an 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 Protective Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

- Physical Form: Flake
- Color: Silver
- Odor: Odorless
- Molecular Weight: 26.98
- Boiling Point: 2630°C(4766°F)
- Melting/Freezing Point: 660 °C(1220 °F)
- Solubility In Water: Insoluble
- Specific Gravity: 2.6

Section X. Stability and Reactivity

- Stability: Stable
- Hazardous Polymerization: Will not occur
- Incompatibilities: Acids, acid chlorides, alkalis, 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.

Section XI. Toxicological Information

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

Section XII. Ecological Information

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

Section XIII. Disposal Considerations

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

Section XIV. Transportation Information

- Proper Shipping Name: Aluminum Flake Powder
- UN Number: 1309
- Class: 4.1
- P.G.: II
- DOT Label: Flammable Solid

Section XV. 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.

Section XVI. Other Information

- Prepared By: C. Rishel
- Date: July 27, 2009

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