

VACHHRAJ METALS



MATERIAL SAFETY DATA SHEET

Revision Date: 09/03/2022

MSDS

Print Date: 09/03/2022 Version: 1.0

Product: Aluminium Powder

Section I. Chemical Product and Company Identification

Supplier:

Vachhraj Metals

Block No- 554, Khta No-215,

National Highway No-8, Near Gateway Industries,

Gujarat

**Chintan Petrol Pump, Kosamba, Surat,
, 394120**

00-91-8460410034

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

Section II. Composition and information on ingredients

S.No	Chemical Name	Percentage
01	Aluminum	96-98
02	Silicon	0.10 to 0.50
03	Iron	0.10 to 0.50
04	Copper	0.10 to 0.30
05	Manganese	0.10
06	Zinc	0.10 to 0.30
07	Titanium	0.10 to 0.30



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

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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 759°C
- Flammable Limits: LEL%: 0.04 oz/ft# 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

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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: Powder or Flitter
- 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

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Section X. Stability and Reactivity

- Stability: Stable
- Hazardous Polymerization: Will Not occur
- Incompatibilities: Acids, acid chlorides, alkalies, 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 alkalies 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: Aluminium Powder Uncoated
- Other UN number: UN1309 Aluminium powder, coated,
- Hazard class 4.1,

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- Pack group II.

Section XV. Regulatory Information

- TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory.
- Risks : Risks Phrase – 10,15 10 – Flammable.
R15- Contact with water liberates flammable gas.
- Safety : Safety Phrase – 7/8 , S7/8 – Keep container tightly closed and dry.
43.4/43.6 S43.4/43.6 – In case of fire, use *Special powder or Dry sand , Don't use water*

Section XVI. Other Information

Prepared By: QC Department.

Date: March 09, 2022

Disclaimer:

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