

Material Safety Data Sheet

Aluminum, Powder, 200 Mesh, 99%

MSDS# 00157

Section 1 - Chemical Product and Company Identification

MSDS Name: Aluminum, Powder, 200 Mesh, 99%
 Catalog Numbers: AC200930000, AC200930025, AC200930250, AC200935000
 Synonyms: None.

Company Identification: Acros Organics BVBA
 Janssen Pharmaceuticaaan 3a
 2440 Geel, Belgium
 Acros Organics
 One Reagent Lane
 Fair Lawn, NJ 07410
 Company Identification: (USA)
 For information in the US, call: 800-ACROS-01
 For information in Europe, call: +32 14 57 52 11
 Emergency Number, Europe: +32 14 57 52 99
 Emergency Number US: 201-796-7100
 CHEMTREC Phone Number, US: 800-424-9300
 CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

UN S#: 7429-90-5
 Chemical Name: Aluminum
 %: 99
 EINECS#: 231-072-3

Hazard Symbols: F



Risk Phrases: 15 17

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! May cause respiratory tract irritation. Air sensitive. May cause eye and skin irritation. May ignite or explode on contact with moist air. Reacts violently and/or explosively with water, steam or moisture. Dust may form flammable or explosive mixture with air, especially when damp. Target Organs: Lungs, eyes, skin.

Potential Health Effects

Eye: May cause eye irritation.
 Skin: May cause skin irritation. Low hazard for usual industrial handling. No sensitizing effects known.
 Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
 Inhalation: May cause respiratory tract irritation. May cause respiratory difficulty and coughing.
 Chronic: Aluminum may be implicated in Alzheimer's disease. Inhalation of aluminum containing dusts may cause pulmonary disease.

Section 4 - First Aid Measures

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water reactive. Material will react with water and may release a flammable and/or toxic gas. Dust can be an explosion hazard when exposed to heat or flame. May ignite or explode on contact with steam or moist air. Aluminum powder may evolve hydrogen gas in contact with water and finely divided dust may be ignited by naked lights or sparks. Polished aluminum powders which have been treated with oils or wax for printing or paint purposes are not generally dangerous. Bulk dust when damp with water may heat spontaneously. Hazard greater as fineness increases.

Extinguishing Media: DO NOT USE WATER! Do NOT get water inside containers. Contact professional fire-fighters immediately. Do NOT use CO2 or halogenated extinguishing agents. Smother with dry sand, dry clay, dry ground limestone (CaCO3), or use approved Class D extinguishers.

Autoignition Temperature: 760 deg C (1,400.00 deg F)

Flash Point: Not applicable.

Explosion Limits: Lower: N/A

Explosion Limits: Upper: N/A

NFPA Rating: ; Special Hazard: -W-

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Do not expose spill to water. Vacuum or sweep up material and place into a suitable, dry disposal container.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not allow water to get into the container because of violent reaction. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Do not allow contact with water. Keep from contact with moist air and steam. Use only with adequate ventilation.

Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from water. Flammables-area. Keep containers tightly closed. Keep away from acidic, alkaline, combustible and oxidizing materials. Separate from halogenated compounds.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Aluminum	1 mg/m3 (respirable fraction)	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

OSHA Vacated PELs: Aluminum: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

Engineering Controls:

Personal Protective Equipment

- Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin: Wear appropriate protective gloves to prevent skin exposure.
- Clothing: Wear appropriate protective clothing to prevent skin exposure.
- Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Powder

Color: silver

Odor: odorless

pH: Not available

Vapor Pressure: Negligible

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 2467 deg C @ 760mm Hg (4,472.60°F)

Freezing/Melting Point: 660 deg C (1,220.00°F)

Decomposition Temperature:

Solubility in water: insoluble

Specific Gravity/Density: 2.7020g/cm³

Molecular Formula: Al

Molecular Weight: 26.98

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Aluminum powder may evolve hydrogen gas in contact with water, and finely divided dust may be ignited by naked lights or sparks. Polished aluminum powders which have been treated with oils or wax for printing or paint purposes are not generally dangerous. Uncoated aluminum powder reacts with strong acid and strong alkalis to release hydrogen gas.

Conditions to Avoid: Ignition sources, dust generation, exposure to air, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials: Not available

Hazardous

Decomposition Products: Hydrogen gas, aluminum oxide, aluminum fumes.

Hazardous

Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 7429-90-5: BD0330000 BD1020000

LD50/LC50: RTECS: Not available.

Carcinogenicity: Aluminum - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

UN Number: UN1396
Packing Group: II
Canada TDG
Shipping Name: Not available
Hazard Class:
Number:
Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F

Risk Phrases:

R 15 Contact with water liberates extremely flammable gases.

R 17 Spontaneously flammable in air.

Safety Phrases:

S 7/8 Keep container tightly closed and dry.

S 43A In case of fire, use dry chemical (never use water).

WGK (Water Danger/Protection)

CAS# 7429-90-5: 0

Canada

CAS# 7429-90-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7429-90-5 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 7429-90-5 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 5/28/1998

Revision #7 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
