



MATERIAL SAFETY DATA SHEET

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1- COMMERCIAL NAME : 3085 - Aluminum Powder

Do not handle this material until the manufacturer's safety precautions have been read and understood! Regulations require that all employees be educated & trained on the Material Safety Data Sheets for all products with which they come in contact.

2- COMPOSITION/INFORMATION ON INGREDIENTS :

CHEMICAL NAME	C.A.S No.	QTY%
1. Aluminum Powder	7429-90-5	>99

3- HAZARDS IDENTIFICATION :

- **Skin** : may produce skin irritation; avoid skin contact.
- **Eye** : moderately irritating to the eyes; may cause tearing, redness, and/or swelling.
- **Inhalation** : repeated or prolong exposure may cause respiratory irritation.
- **Target Organs** : eyes, skin, mucous membranes & respiratory tract
- **Special Hazards** : *explosive dust hazards (as with any dust cloud formation)*

4- FIRST AID MEASURES :

- **Where a serious accident occurs, seek medical advice immediately.**
- **Change any soiled clothing immediately.**
- **In case of eye contact** : open eyelids as far as possible and flush with large quantities of water for at least fifteen minutes. Contact a physician, preferably an eye specialist.
- **In case of skin contact** : physically remove the product and wash skin thoroughly with soap and water. Seek medical attention if after-effects occur.
- **In case of swallowing** : dilute with large amounts of water. **DO NOT** induce vomiting. Seek immediate medical attention.
- **In case of inhalation** : remove the patient from the contaminated area, give oxygen if necessary. Consult physician if after-effects occur.

5- FIRE-FIGHTING MEASURES :

5-1 Fire-extinguisher types :

- Use : Dry sand, dry inert granular material or powder, or approved dry powder extinguishing agent. Do not use water. Select appropriate extinguishing agent for other materials involved.
- Do not use : Water

5-2 Specific fire and explosion risks :

- Avoid generating sparks or ignition source in areas of high airborne dust levels or in areas with accumulated dust. **Flash Point: N/A Limits: LEL% 0.040 oz/ft3 UEL% N/A**

5-3 specific protective measures during firefighting :

- Firefighting personnel should be equipped with insulated, autonomous respiratory protection equipment.

COMMERCIAL NAME : 3085 - Aluminum Powder**6- ACCIDENTAL RELEASE MEASURES :****6-1 Individual protection :**

As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale, do not ingest & use with adequate ventilation. Wear dust mask in dust filled areas.

6-2 Environmental protection : Please see § 12

6-3 Decontamination procedures :

- Contain spilt material in order to avoid its transfer to sewers or rivers and streams.
- Physically remove the material.
- Cover material with sand, earth, or any other similar absorbent material in order to soak product up. The resulting mix may then be shoveled into cans and removed for disposal (see §13).

7- HANDLING AND STORAGE :**7-1 Handling :**

- Inform personnel of risks associated with the product, the precautions to be taken and procedures to follow where an accident occurs.
- Observe personal hygiene rules to avoid contact with eyes and skin.
- Avoid inhaling dusts produced by the material, **in especially high areas of airborne dust levels.**
- Install showers and eye baths ("fountain" type).
- Ensure sufficient ventilation, including appropriate local air extraction, in order to comply with workplace exposure limits.
- Wash hands thoroughly at beginning of every work break and at the end of the working day.
- Work stations and the general working area must be kept perfectly clean.
- Avoid exposure to the product of persons having suffered from eczema or still suffering from any skin condition, wound, cut or irritation.

7-2 Storage :

- Keep the material hermetically sealed in its original packaging, protected from humidity and at a temperature between 59 and 77°F / 15 and 25°C in a well-ventilated storage facility. Protect against water & moisture.
- Ensure that the floor of the storage area is impermeable and concave in profile in order to provide effective containment.
- Keep the product away from food.
- Reproduce labeling on all new packs where original packaging is divided.
- Place away from incompatible chemicals and possible sources of ignition.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION :**8-1 Exposure controls :**

Always maintain workplace airborne contaminants to the lowest possible levels.

8-2 Personal protection :

- respiratory protection : YES, wear an NIOSH approved dust mask when working with the powder.
- eye protection : YES, safety glasses with side shields, avoid the wearing of contact lenses.
- skin protection : YES, protective gloves to protect hands from irritation.

Do not mix work clothing and normal clothing. Wash hands thoroughly at beginning of every work break and at the end of the working day.

COMMERCIAL NAME : 3085 - Aluminum Powder**9- PHYSICAL AND CHEMICAL PROPERTIES :**

Physical state : powder

Color : silvery-white

Odor : none

Flash point : N/A **Melting Point :** 1220°F/660°C

Decomposition temperature : N/A

Specific gravity : 2.7

Solubility : insoluble in water; soluble in concentrated acids and alkalies.

10- STABILITY AND REACTIVITY :**10-1 Dangerous decomposition by-products :**

- These are non-existent if storage and handling rules are followed (please see also § 5-2).

10-2 Hazardous reactions with :

- Open flame, sources of ignition during the formation/generation of dust cloud - airborne dusts.

11- TOXICOLOGICAL INFORMATION :

Effects on eyes : dust may cause irritation

Effects on skin : contact with powder may cause slight irritation

Inhalation : may cause irritation to the upper respiratory tract (mucous membranes)

Ingestion : dust may cause irritation if ingested (see Section 4 for first aid)

No LD50 or LC50 established for oral, dermal, inhalation or inhalation routes of exposure

12- ECOLOGICAL INFORMATION :**Based on data for one or more similar products :**

- **Ecotoxicity :** not established

- **Biodegradability :** not established

13- DISPOSAL CONSIDERATIONS :

All disposal methods must be in compliance with all Federal, State/Provincial and local regulations. Regulations may vary in different locations. Waste characteristics and compliance with applicable laws are the responsibility solely of the waste generator.

COMMERCIAL NAME : 3085 - Aluminum Powder**14- TRANSPORT INFORMATION :****DOT Regulations/Information :**

- Not covered under official regulations

Internal label : H0002000

15- REGULATORY INFORMATION :**US Federal Regulation :****Toxic Substances Control Act (TSCA) :**

All components are included in the EPA Toxic Substances Control Act Chemical Substance Inventory.

OSHA Hazard Communication Standard Hazard Classes : Irritant

Non-hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

OSHA PEL/TWA : (Total Dust) TWA 15 mg/m³ (5mg/m³ respirable)**ACGIH TLV/TWA :** (Total Dust) TWA 10 mg/m³**EPA SARA Title III Section 313 Toxic Chemicals :** Aluminum (C.A.S. 7429-90-5) 100%**16- OTHER INFORMATION :****HMIS Ratings:****Health. Flammability. Reactivity**

1.3.1.

Ratings Key: 4 = Highest hazard, 0 = Lowest hazard, * = Chronic Health Hazard**REVEALING MODIFICATION : DbAlum3085.PDF**

Revised : 9/1/2009 Supersedes sheet : 2/21/2003 This sheet provides a complement to the product use instructions but does not replace them. The information it contains is based on our current knowledge of the product concerned at the date of drafting. That information is given in good faith and does not in any circumstances remove from the user his duty to be aware of and to follow all legal regulations and statutes covering his activities. The user takes sole responsibility for application of safety measures covering the use of the product he is aware of. We also draw the user's attention to the risks attached to any use of the product for applications for which it was not designed.
03/2006