

Activated Alumina Desiccant

Part Numbers: 1278067, 1212000, 1212001, 1212002, 1278068, 1212003, 1212004, 1212005, 1278066, 1212006, 1212007, 1212008

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1. Product and Company Identification

Company

BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. Hazards Identification

Emergency overview**CAUTION:**

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

May cause difficulty breathing.

Prolonged or repeated contact may result in dermatitis.

Contact with the eyes or skin may cause mechanical irritation.

Contains material which may indicate/cause the possibility of sensory and pulmonary irritation.

Avoid contact with the skin, eyes and clothing.

Avoid inhalation of dusts.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) particulate respirator.

Wear safety glasses with side-shields.

Wear chemical resistant protective gloves.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

State of matter: solid

Colour: off-white

Odour: odourless

Potential health effects**Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion:

Not irritating to the eyes. Not irritating to the skin. Not irritating to the respiratory system. The product has not been tested. The statement has been derived from the properties of the individual components.

Potential environmental effects

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Aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Degradation / environmental fate:

Not applicable for inorganic substances.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
1344-28-1	94.0 - 100.0 %	Aluminum oxide

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air. If necessary, give oxygen. If not breathing, give artificial respiration. Seek medical attention if necessary.

If on skin:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:

No hazards anticipated. If large quantities are ingested, seek medical advice.

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Flash point:

Non-flammable.

Self-ignition temperature:

not self-igniting

Additional information:

Use extinguishing measures to suit surroundings.

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

6. Accidental release measures

Personal precautions:

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

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Environmental precautions:

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Cleanup:

Vacuum up spilled product. Place into suitable container for disposal.

7. Handling and Storage

Handling

General advice:

Avoid dust formation in confined areas. Avoid contact with the skin, eyes and clothing. Ensure adequate ventilation.

Protection against fire and explosion:

Product is not explosive.

Storage

General advice:

Keep container tightly closed in a cool, well-ventilated place.

Storage incompatibility:

General advice: Segregate from reducing agents.

Storage stability:

Keep container dry.

8. Exposure Controls and Personal Protection

Advice on system design:

Provide local exhaust ventilation to control dust. Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134). Wear appropriate certified respirator when exposure limits may be exceeded.

Hand protection:

Wear chemical resistant protective gloves., Consult with glove manufacturer for testing data.

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

No eating, drinking, smoking or tobacco use at the place of work.

9. Physical and Chemical Properties

Form:	solid in various forms
Odour:	odourless
Colour:	off-white

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pH value:	9.4 - 10.1	
Melting point:	2,050 °C	
Bulk density:	38.0 - 52 lb/ft3	(68 °F)
Viscosity, dynamic:		not applicable
Solubility in water:		insoluble

10. Stability and Reactivity

Conditions to avoid:

Avoid deposition of dust. Avoid dust formation.

Substances to avoid:

water, reducing agents

Hazardous reactions:

The product is chemically stable.
No hazardous reactions known.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products known.

Thermal decomposition:

No decomposition if used correctly.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

11. Toxicological information

Acute toxicity

Oral:

Information on: Aluminum oxide

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg (OECD Guideline 401)

Irritation / corrosion:

Skin:

Information on: Aluminum oxide

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

12. Ecological Information

Fish

Acute:

DIN 38412 Part 15 static

Leuciscus idus/LC50 (96 h): > 500 mg/l

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The product has not been tested. The statement has been derived from products of a similar structure and composition.

Information on: Aluminum oxide

Acute:

DIN 38412 Part 15 static

Leuciscus idus/LC50 (96 h): > 500 mg/l

The product has not been tested. The statement has been derived from products of a similar structure and composition.

Aquatic invertebrates

Acute:

OECD Guideline 202, part 1 static

Daphnia magna (48 h): > 100 mg/l

Information on: Aluminum oxide

Acute:

OECD Guideline 202, part 1 static

Daphnia magna (48 h): > 100 mg/l

Aquatic plants

Toxicity to aquatic plants:

OECD Guideline 201 static

green algae/No observed effect concentration (72 h): > 100 mg/l

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with local authority regulations. Check for possible recycling. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

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15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

OSHA hazard category: ACGIH TLV established;

EPCRA 311/312 (Hazard categories): Acute;

EPCRA 313:

CAS Number

1344-28-1

Chemical name

Aluminum oxide

State regulations

State RTK

MA, NJ, PA

CAS Number

1344-28-1

Chemical name

Aluminum oxide

16. Other Information

NFPA Hazard codes:

Health : 1 Fire: 0 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 0 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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Local Contact Information

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