

Safety data sheet

DD431 3/16"

Revision date : 2008/12/04
Version: 3.0

Page: 1/5
(30500459/MDS_GEN_US/EN)

1. Substance/preparation 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. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
1333-84-2	>= 94.0 - <= 100.0 %	Aluminum oxide (Al ₂ O ₃), hydrate

3. Hazard 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.

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.

4. First-aid measures

If inhaled:

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

Safety data sheet

DD431 3/16"

Revision date : 2008/12/04
Version: 3.0

Page: 2/5
(30500459/MDS_GEN_US/EN)

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.

5. Fire-fighting measures

Flash point:

Non-flammable.

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.

NFPA Hazard codes:

Health : 0 Fire: 0 Reactivity: 1 Special:

6. Accidental release measures

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.

Storage**General advice:**

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

Storage stability:

Keep container dry.

8. Exposure controls and personal protection

Components with workplace control parameters

Aluminum oxide (Al ₂ O ₃), hydrate	OSHA	PEL 5 mg/m ³ Respirable fraction ; PEL 15 mg/m ³ Total dust ;
	ACGIH	TWA value 1 mg/m ³ Respirable fraction ;

Safety data sheet

DD431 3/16"

Revision date : 2008/12/04
Version: 3.0

Page: 3/5
(30500459/MDS_GEN_US/EN)

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 based on level of activity and exposure.

9. Physical and chemical properties

Form:	powder, granules, pellets, balls	
Odour:	odourless	
Colour:	off-white	
pH value:	9.4 - 10.1	
Melting point:	2,050 °C	
Boiling point:		No data available.
Vapour pressure:		No data available.
Density:		No data available.
Bulk density:	approx. 650 kg/m3 38.0 - 52 lb/ft3	(68 °F)
Partitioning coefficient n-octanol/water (log Pow):		No data available.
Viscosity, dynamic:		No data available.
Solubility in water:		insoluble

10. Stability and reactivity

Substances to avoid:

water

Hazardous reactions:

The product is chemically stable.
Addition of water leads to increase in temperature.

11. Toxicological information

Oral:

Information on: Aluminum oxide
LD50/rat: > 5,000 mg/kg (OECD Guideline 401)

Safety data sheet

DD431 3/16"

Revision date : 2008/12/04
Version: 3.0

Page: 4/5
(30500459/MDS_GEN_US/EN)

Skin irritation:

*Information on: Aluminum oxide
rabbit: non-irritant (OECD Guideline 404)*

12. Ecological information

*Information on: Aluminum oxide
Acute and prolonged toxicity to fish:
DIN 38412 Part 15 static
golden orfe/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.*

*Information on: Aluminum oxide
Acute toxicity to aquatic invertebrates:
OECD Guideline 202, part 1 static
Daphnia magna (48 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

15. Regulatory information

Federal Regulations

Safety data sheet

DD431 3/16"

Revision date : 2008/12/04
Version: 3.0

Page: 5/5
(30500459/MDS_GEN_US/EN)

Registration status:
TSCA, US released / listed

OSHA hazard category: ACGIH TLV established

SARA hazard categories (EPCRA 311/312): Acute

SARA 313:

<u>CAS Number</u>	<u>Chemical name</u>
1333-84-2	Aluminum oxide (Al ₂ O ₃), hydrate

State regulations

State RTK

<u>CAS Number</u>	<u>Chemical name</u>	<u>State RTK</u>
1333-84-2	Aluminum oxide (Al ₂ O ₃), hydrate	MA, NJ, PA

16. Other information

HMIS III rating

Health: 1 Flammability: 0 Physical hazard: 1

HMIS uses 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 high hazard.

Local contact information

prod_reg@basf.com

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