

Safety data sheet

Ludiflash*

Revision date : 2007/01/09
Version: 1.0

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(30280988/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>
69-65-8	80.0 - 100.0 %	Mannitol
7732-18-5	5.0 - 15.0 %	Water
25249-54-1	3.0 - 7.0 %	Poly[1-(2-oxo-1-pyrrolidinyl)-1,2-ethanediy]
25086-89-9	0.5 - 1.5 %	Polyvinylpyrrolidone-vinyl acetate copolymer

3. Hazard identification

Emergency overview

NO PARTICULAR HAZARDS KNOWN.
Avoid contact with the skin, eyes and clothing.
Avoid inhalation of dusts.
Use with local exhaust ventilation.
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.

Sensitization:

Information on: Mannitol

No data available concerning sensitizing effects.

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4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water.

Do not induce vomiting. Seek medical attention.

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-fighting measures

Autoignition: 410 °C

Lower explosion limit: (25 °C)

Suitable extinguishing media:

water spray, foam

Unsuitable extinguishing media for safety reasons:

carbon dioxide

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions:

Discharge into the environment must be avoided.

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Cleanup:

For small amounts: Sweep/shovel up.

For large amounts: Pick up with suitable appliance and dispose of.

7. Handling and storage

Handling

General advice:

Avoid the formation and deposition of dust. Provide good ventilation of working area (local exhaust ventilation if necessary).

Protection against fire and explosion:

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

8. Exposure controls and personal protection

Advice on system design:

Provide local exhaust ventilation to control dust.

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection:

Wear chemical resistant protective gloves.

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	granules	
Odour:	almost odourless	
Colour:	white to light yellow	
pH value:	6	(5 %(m), 25 °C)
Melting point:	164 °C	
Bulk density:	approx. 400 - 550 kg/m ³	
Solubility in water:		partly soluble

10. Stability and reactivity

Minimum ignition energy:

10 - 30 mJ, 1,000 hPa, 25 °C (VDI 2263, sheet 1, 2.5)

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Hazardous reactions:

No hazardous reactions known.

Decomposition products:

Possible decomposition products: Acetic acid

Thermal decomposition:

Stable up to the melting point.

11. Toxicological information

Other information:

Information on: Mannitol

12. Ecological information

Information on: Mannitol

Test method:

OECD 301D; EEC 92/69, C.4-E (aerobic), activated sludge, domestic

Method of analysis:

BOD of COD

Degree of elimination:

100 % (28 d)

Evaluation:

Readily biodegradable (according to OECD criteria).

other TS

Readily biodegradable (according to OECD criteria).

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

Information on: Mannitol

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Information on: Mannitol

Acute and prolonged toxicity to fish:

DIN 38412 Part 15 static

golden orfe/LC50 (48 h): > 70,000 mg/l

other TS

Information on: Mannitol

Toxicity to microorganisms:

DIN 38412 Part 8 aquatic

bacterium/EC10 (16 h): > 90,000 mg/l

other TS

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

Do not discharge into waterways or sewer systems without proper authorization.

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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

Registration status:

TSCA, US

released / exempt

OSHA hazard category:

Not hazardous

CERCLA RQ

5000 LBS

1000 LBS

CAS Number

64-19-7; 108-05-4

75-07-0

Chemical name

Acetic acid; vinyl acetate

acetaldehyde

SARA hazard categories (EPCRA 311/312): Not hazardous

State regulations

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

16. Other information

HMIS III rating

Health: 1

Flammability: 1

Physical hazard: 0

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

ME/CM, mail box address

prod_reg@basf.com

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