

Safety data sheet

Divergan* F

Revision date : 2006/06/08
Version: 1.0

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(30034969/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company

BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information

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

2. Composition/information on ingredients

CAS Number

9003-39-8

Content (W/W)

100.0 %

Chemical name

Polyvinylpyrrolidone

3. Hazard identification

Emergency overview

CAUTION: MAY BE HARMFUL IF INHALED.

Contact with the eyes or skin may cause mechanical irritation.

CAN FORM EXPLOSIVE DUST-AIR MIXTURES.

Avoid contact with the skin, eyes and clothing.

Avoid inhalation of dusts.

Ensure adequate 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.

Acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation.

Irritation:

Not irritating to the skin. Not irritating to the eyes.

Potential environmental effects

Aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

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The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

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: 440 °C (DIN 51794)

Suitable extinguishing media:

water spray, foam, carbon dioxide, dry extinguishing media

Hazards during fire-fighting:

carbon dioxide, hydrogen cyanide, nitrous gases

Protective equipment for fire-fighting:

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

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

Avoid dust formation.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

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Cleanup:

Dispose of absorbed material in accordance with regulations.

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

7. Handling and storage

Handling

General advice:

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges. The product is capable of dust explosion.

Storage

General advice:

Keep container tightly closed and dry; store in a cool place.

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 breathable aerosols/dust are formed. Wear a NIOSH-certified (or equivalent) particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

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.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	powder	
Odour:	faint specific odour	
Colour:	white	
melting point (decomposition):		The substance / product decomposes therefore not determined.
Density:	1.2 g/cm ³	(20 °C)
Solubility in water:		insoluble

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10. Stability and reactivity

Hazardous reactions:

Dust explosion hazard.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

> 145 °C

11. Toxicological information

Acute toxicity

Oral:

LD50/rat: > 2,000 mg/kg (BASF-Test)

Inhalation:

LC50/rat: > 5.2 mg/l / 4 h(OECD Guideline 403)

Skin irritation:

rabbit: non-irritant (Draize test)

Eye irritation :

rabbit: non-irritant (Draize test)

Chronic toxicity

Genetic toxicity:

No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. The substance was not mutagenic in studies with mammals.

Carcinogenicity:

In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was not observed.

Developmental toxicity/teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

12. Ecological information

Environmental fate and transport

Biodegradation:

Test method:	OECD Guideline 302 B (aerobic), activated sludge, industrial
Method of analysis:	DOC reduction
Degree of elimination:	< 10 % (15 d)
Evaluation:	Poorly eliminated from water. Poorly eliminated from water.

Bioaccumulation:

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Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

Acute and prolonged toxicity to fish:

DIN 38412 Part 15 static

golden orfe/LC50 (96 h): > 10,000 mg/l

Toxicity to microorganisms:

OECD Guideline 209 aerobic

activated sludge, industrial/EC20 (0.5 h): > 1,995 mg/l

13. Disposal considerations

Waste disposal of substance:

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

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

Container disposal:

Dispose of container and any rinsate in an environmentally safe manner. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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 / listed

OSHA hazard category:

Chronic target organ effects reported

SARA hazard categories (EPCRA 311/312): Chronic

16. Other information

HMIS III rating

Health: 1

Flammability: 1

Physical hazard: 0

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HMS 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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