

# Safety data sheet

## Plurasafe<sup>®</sup> H2O-K<sup>®</sup>

Revision date : 2008/02/20  
Version: 1.0

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(30429805/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

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
9038-95-3	55.0 % 45.0 %	Oxirane, methyl-, polymer with oxirane, monobutyl ether Proprietary

### 3. Hazard identification

Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Avoid contact with the skin, eyes and clothing.

Avoid inhalation of mists/vapours.

Use with local exhaust ventilation.

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

Wear NIOSH-certified chemical goggles.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

Wear chemical resistant protective gloves.

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

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Seek medical attention.

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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. Immediate medical attention required.

#### Note to physician

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

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## 5. Fire-fighting measures

Flash point: 204 °C (ASTM D92)  
Autoignition: 371 °C (DIN 51794)

Suitable extinguishing media:  
water, dry extinguishing media, foam

Hazards during fire-fighting:  
harmful vapours  
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:  
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

NFPA Hazard codes:  
Health : 1      Fire: 1      Reactivity: 0      Special:

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## 6. Accidental release measures

Personal precautions:  
Use personal protective clothing.

Environmental precautions:  
Do not discharge into drains/surface waters/groundwater.

Cleanup:  
Place absorbed material in the same container as the spilled substance/product for disposal.

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).  
Dispose of absorbed material in accordance with regulations.  
For large amounts: Pump off product.

Further information:  
High risk of slipping due to leakage/spillage of product.

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## 7. Handling and storage

### Handling

General advice:

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Take precautionary measures against static discharges.

### Storage

General advice:

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

Storage incompatibility:

General: Segregate from acids and bases. Segregate from strong oxidizing agents.

## 8. Exposure controls and personal protection

Advice on system design:

Provide adequate exhaust ventilation to control work place concentrations.

### Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.

Hand protection:

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. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Form:	liquid
Odour:	of glycol
Colour:	water white to straw yellow
pH value:	5.7 (ASTM E70)
pour point:	-51 °C (1,013 hPa) (ASTM D97)
Boiling point:	281 °C (1.013 mbar) (ASTM D1120)
Vapour pressure:	0.67 mbar (20 °C)
	1.07 mbar (50 °C)
Density:	1.0694 g/cm <sup>3</sup> (20 °C) (ISO 2811-3)
Viscosity, kinematic:	47.8 mm <sup>2</sup> /s (ASTM D445)
Solubility in water:	not soluble

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Miscibility with water:

miscible in all proportions

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## 10. Stability and reactivity

Substances to avoid:

No substances known that should be avoided.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

Decomposition products:

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

Corrosion to metals:

No corrosive effect on metal.

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## 11. Toxicological information

### Acute toxicity

Oral:

LD50/rat: > 2,000 mg/kg

Skin irritation:

rabbit: non-irritant (OECD Guideline 404)

Eye irritation :

rabbit: non-irritant (OECD Guideline 405)

### Chronic toxicity

Other information:

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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## 12. Ecological information

### Environmental fate and transport

Biodegradation:

Test method: OECD 301B; ISO 9439; 92/69/EEC, C.4-C

Method of analysis: CO2 formation relative to the theoretical value

Degree of elimination: > 60 %

Evaluation: Biodegradable.

### Environmental toxicity

Acute and prolonged toxicity to fish:

LC50 (96 h): > 100 mg/l

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## Other ecotoxicological advice:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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## 13. Disposal considerations

### Waste disposal of substance:

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

It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

### Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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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

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## 15. Regulatory information

### Federal Regulations

#### Registration status:

TSCA, US

released / listed

#### OSHA hazard category:

Not hazardous

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 AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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## 16. Other information

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**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.

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**Local contact information**

prod\_reg@basf.com

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