

# Safety Data Sheet

## ENERSHIELD HP

Revision date : 2010/10/14  
Version: 1.0

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(30513716/SDS\_GEN\_MX/EN)

### 1. Product and Company Identification

Company

BASF Mexicana S.A. de C.V.  
Av. Insurgentes Sur 975  
Col. CD. De Los Deportes, DF 03710,  
MEXICO

24 Hour Emergency Response Information

Tel.: +1-800-849-5204 or +1-833-229-1000  
CHEMTREC Int.: +1-703-527-3827

### 2. Hazards Identification

Emergency overview

**WARNING:**

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

Ingestion may cause irritation to mucous membranes.

Avoid contact with the skin, eyes and clothing.

Wash thoroughly after handling.

Keep container tightly closed.

No exposure to respirable Crystalline (quartz) Silica anticipated with recommended use of product.

State of matter: liquid

Colour: grey

Odour: slight odour

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:**

Ingestion may cause gastrointestinal disturbances. The product has not been tested. The statement has been derived from products of a similar structure or composition.

**Irritation / corrosion:**

May cause slight irritation to the eyes. May cause slight irritation to the skin. The product has not been tested. The statement has been derived from the properties of the individual components.

Potential environmental effects

**Aquatic toxicity:**

The product has not been tested.

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### 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Hazardous ingredients</u>
14808-60-7	>= 15.0 - <= 40.0 %	crystalline silica
1317-65-3	>= 10.0 - <= 30.0 %	Limestone
12001-26-2	>= 1.0 - <= 5.0 %	Mica-group minerals
13463-67-7	>= 0.5 - <= 1.5 %	Titanium dioxide
12174-11-7	>= 0.1 - <= 1.0 %	Palygorskite ([Mg(Al <sub>0.5</sub> -1Fe <sub>0-0.5</sub> )]Si <sub>4</sub> (OH)O <sub>10</sub> .4H <sub>2</sub> O)
107-21-1	>= 0.1 - <= 1.0 %	ethylene glycol

### 4. First-Aid Measures

**General advice:**

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

**If inhaled:**

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

**If on skin:**

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If swallowed:**

Rinse mouth immediately with water. Seek medical attention if necessary. Do not induce vomiting unless told to by a poison control center or doctor.

### 5. Fire-Fighting Measures

Flash point:

A flash point determination is unnecessary due to the high water content.

**Suitable extinguishing media:**

foam, water spray, dry powder, carbon dioxide

**Unsuitable extinguishing media for safety reasons:**

water jet

**Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

**Protective equipment for fire-fighting:**

Wear a self-contained breathing apparatus.

**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.

### 6. Accidental release measures

**Personal precautions:**

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Handle in accordance with good building materials hygiene and safety practice.

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### Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

### Cleanup:

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

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## 7. Handling and Storage

### Handling

#### General advice:

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

#### Protection against fire and explosion:

The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

### Storage

#### General advice:

Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

#### Temperature tolerance

Protect from temperatures below: 0 °C

The packed product must be protected from temperatures below the indicated one.

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## 8. Exposure Controls and Personal Protection

### Components with workplace control parameters

ethylene glycol	Exposure limits	CLV 100 mg/m3 aerosol ;
Limestone	Exposure limits	TWA value 10 mg/m3 ; STEL value 20 mg/m3 ;
Titanium dioxide	Exposure limits	TWA value 10 mg/m3 (titanium (Ti)); STEL value 20 mg/m3 (titanium (Ti));
crystalline silica	Exposure limits	TWA value 0.098 mg/m3 Respirable dust ; TWA value 0.29 mg/m3 Total dust ; TWA value 0.1 mg/m3 ;
Mica-group minerals	Exposure limits	TWA value 3 mg/m3 ;

### Personal protective equipment

#### Hand protection:

Wear chemical resistant protective gloves.

#### Eye protection:

Safety glasses with side-shields.

#### Body protection:

depending upon conditions of use., Cover as much of the exposed skin as possible to prevent all skin contact., light protective clothing

#### General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks

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and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

### 9. Physical and Chemical Properties

Form:	viscous	
Odour:	slight odour	
Odour threshold:	No data available.	
Colour:	grey	
pH value:	8 - 9.5	( 23 °C)
Boiling point:		not applicable
Vapour pressure:		not applicable
Density:	1.47 g/cm3	( 23 °C)
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Solubility in water:		soluble, miscible

### 10. Stability and Reactivity

**Conditions to avoid:**

Avoid extreme temperatures.

**Substances to avoid:**

strong bases, strong acids

**Hazardous reactions:**

The product is stable if stored and handled as prescribed/indicated.

**Thermal decomposition:**

No decomposition if stored and handled as prescribed/indicated.

**Oxidizing properties:**

Not an oxidizer.

### 11. Toxicological information

**Acute toxicity**

*Information on: ethylene glycol*

*Assessment of acute toxicity:*

*Harmful if swallowed. Virtually nontoxic after a single skin contact.*

**Repeated dose toxicity**

*Information on: ethylene glycol*

*Assessment of repeated dose toxicity:*

*The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.*

**Carcinogenicity**

*Information on: crystalline silica*

*The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.*

*NTP listed carcinogen*

*Information on: Titanium dioxide*

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IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.

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### Development:

Information on: ethylene glycol  
In animal studies the substance caused malformations when given at high doses.

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### Other Information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

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## 12. Ecological Information

### Degradability / Persistence Biological / Abiological Degradation

Evaluation: Inherently biodegradable.  
The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants.

### Other adverse effects:

Ecological data are not available. Do not allow to enter soil, waterways or waste water channels.

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## 13. Disposal considerations

### Waste disposal of substance:

Recommendations: Use excess product in an alternate beneficial application. Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with local authority regulations.

### Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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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

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### Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

## 15. Regulatory Information

### Federal Regulations

Not applicable

## 16. Other Information

### HMIS III rating

Health: 1<sup>+</sup> Flammability: 1 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.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

### MSDS Prepared by:

BASF NA Product Regulations  
msds@basf.com  
MSDS Prepared on: 2010/10/14

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