# **Material Safety Data Sheet**



### **HP Epoxy-Finish Asphalt Protector**

# 1. Product and company identification

Product name : HP Epoxy-Finish Asphalt Protector

Material uses : Protects asphalt against penetration by oil, gasoline and other harmful products.

Supplier/Manufacturer : Techniseal

300, avenue Liberté

Candiac, QC, Canada, J5R 6X1

Tel: (514) 523-2110 Toll free: 1-800-465-7325 Fax: (450) 633-3035

Validation date : 4/13/2016

Prepared by : IHS

In case of emergency : CANUTEC (613) 996-6666

### 2. Hazards identification

Physical state : Liquid.
Color : Black.

Odor : Latex. [Slight]

**Emergency overview** 

Signal word : WARNING!

Hazard statements : CAUSES EYE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET

ORGAN DAMAGE, BASED ON ANIMAL DATA. BIRTH DEFECT HAZARD - CAN CAUSE BIRTH DEFECTS. DEVELOPMENTAL HAZARD - CAN CAUSE ADVERSE

DEVELOPMENTAL EFFECTS. REPRODUCTIVE HAZARD.

**Precautions**: Wooid exposure - obtain special instructions before use. Do not breathe vapor or mist.

Do not get on skin or clothing. Avoid contact with eyes. Avoid exposure during pregnancy. Use only with adequate ventilation. Keep container tightly closed and

sealed until ready for use. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

**Routes of entry**: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.Skin: No known significant effects or critical hazards.

**Eyes** : Irritating to eyes.

### Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.

Teratogenicity: ©an cause birth defects.

**Developmental effects** : Can cause developmental abnormalities.

Fertility effects : Can impair fertility.

**Target organs**: Contains material which may cause damage to the following organs: blood, eyes,

central nervous system (CNS).

### Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.

**Eyes** : Adverse symptoms may include the following:

pain or irritation watering redness

Medical conditions aggravated by overexposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

# 3. Composition/information on ingredients

### **United States**

Name	CAS number	%
Mepheline syenite Diethylene glycol monobutyl ether	37244-96-5 112-34-5	10-30 1-5

### **Canada**

Name	CAS number	%
Mepheline syenite	37244-96-5	10-30
Diethylene glycol monobutyl ether	112-34-5	1-5
dibutyl phthalate	84-74-2	0.1-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with plenty of water

for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical

attention immediately.

**Skin contact**: In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately.

**Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

**Ingestion**: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst. May be

combustible at high temperature.

**Extinguishing media** 

Suitable : Use an extinguishing agent suitable for the surrounding fire. Use water spray, dry

chemical powder or carbon dioxide for extinction.

Not suitable : None known.

**Special exposure hazards**: Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

**Personal precautions** : No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist.

Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions**: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up

if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

### Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### **Storage**

: Do not store below the following temperature: 15°C (59°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

#### **United States**

Ingredient	Exposure limits
Nepheline syenite	ACGIH TLV (United States).
	TWA: 10 mg/m³ Form: Inhalable
Diethylene glycol monobutyl ether	ACGIH TLV (United States, 3/2015).
	TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor

#### Canada

Occupational exposure lim	<u>its</u>	TWA (	(8 hours	STEL (15 mins)		Ceiling					
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Mepheline syenite	US ACGIH ON 7/2015	-	10 10	-	-	-	-	-	-	-	[a] [b]
Diethylene glycol monobutyl ether	US ACGIH 3/2015	10 10	-	-	-	-	-	-	-	_	[c] [c]
dibutyl phthalate	US ACGIH 3/2015 AB 4/2009	-	5 5	-	-	-	-	-	-	_	[-]
	BC 5/2015 ON 7/2015	-	5	-	-	-	-	-	-		
	QC 1/2014 SK	-	5 5	-	-	- 10	-  -	-  -	-	-	

Form: [a]Inhalable [b]Total dust [c]Inhalable fraction and vapor

Consult local authorities for acceptable exposure limits.

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# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Engineering measures

: Sood general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

### Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Recommended: natural rubber (latex).

#### **Eyes**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: Safety glasses.

### Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Recommended: Overall.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

Physical state : Liquid.

Flash point : Not available.

Auto-ignition temperature : Not available.

Flammable limits : Not available.

Color : Black.

Odor : Latex. [Slight]

**pH** : **8** to 9

Boiling/condensation point : 100°C (212°F)

Melting/freezing point : -3.5°C (25.7°F)

Density : 1 to 1.2 g/cm³

Vapor pressure : Not available.
 Vapor density : Not available.
 Odor threshold : Not available.
 Evaporation rate : Not available.

Viscosity : Dynamic (room temperature): 460 to 575 mPa⋅s (460 to 575 cP)

Solubility : Miscible in water.

LogK<sub>ow</sub> : Not available.

## 10. Stability and reactivity

Chemical stability : The product is stable.

Conditions to avoid : No specific data.

**Incompatible materials**: Reactive or incompatible with the following materials: oxidizing materials and alkalis.

halogenated compounds.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

# 11. Toxicological information

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Diethylene glycol monobutyl ether	LD50 Dermal	Rabbit	2700 mg/kg	-
dibutyl phthalate	LD50 Oral LD50 Dermal LD50 Oral	Rabbit	4500 mg/kg >25000 mg/kg 7499 mg/kg	- - -

### **Chronic toxicity**

Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
iethylene glycol monobutyl ether	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	_

### Sensitizer

Not available.

### **Carcinogenicity**

### **Classification**

Not available.

### <u>Mutagenicity</u>

Not available.

### **Teratogenicity**

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Not available.

Not available.

Conclusion/Summary

Reproductive toxicity

: Classification is based on animal data.

Conclusion/Summary

: Classification is based on animal data.

## 12. Ecological information

**Ecotoxicity** 

: This material is very toxic to aquatic life. This material is harmful to aquatic life with long lasting effects.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
iethylene glycol monobutyl ether	Acute LC50 1300000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
dibutyl phthalate	Acute EC50 3.4 µg/l Marine water	Algae - Gymnodinium breve	96 hours
	Acute EC50 2990 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 480 μg/l Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 210 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 500 μg/l Fresh water Chronic NOEC 25 μg/l Fresh water	Daphnia - Daphnia magna Fish - Danio rerio - Embryo	21 days 5 weeks

### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Fiethylene glycol monobutyl ether	301D Ready Biodegradability - Closed Bottle Test OECD 301 301C Ready	76 % - 28 days 58 % - Readily - 28 days	-	- 100 mg/l Activated sludge
	Biodegradability - Modified MITI Test (I)			

## 13. Disposal considerations

### Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.					
TDG Classification	<b>☑</b> N3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyl phthalate). Marine pollutant (dibutyl phthalate)		W .	***************************************	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).  Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.  Explosive Limit and Limited Quantity Index 5  Special provisions 16, 99
IMDG Class	<b>☑</b> N3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyl phthalate). Marine pollutant (dibutyl phthalate)		M	¥2>	Fis product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.  Emergency schedules (EmS) F-A, S-F  Special provisions 274, 335, 969
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**United States/Canada** 

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HP Epoxy-Finish Asphalt Protector								
IATA-DGR Class	<b>I</b> €N3082	Environmentally hazardous substance, liquid, n.o.s. (dibutyl phthalate)	9		***************************************	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.  Passenger and Cargo AircraftQuantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only Quantity limitation: 450 L Packaging instructions: 964 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: y964  Special provisions A97, A158, A197		

PG\*: Packing group

# 15. Regulatory information

#### **United States**

**HCS Classification** : Irritating material

Target organ effects

U.S. Federal regulations : TSCA 8(a) PAIR: Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-

hydroxy-; Siloxanes and Silicones, di-Me, reaction products with silica

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined.

SARA 302/304: No products were found.

SARA 311/312 Hazards identification: Immediate (acute) health hazard, Delayed

(chronic) health hazard

Clean Water Act (CWA) 307: dichloromethane; dibutyl phthalate; 1,3-dichloropropene

Clean Water Act (CWA) 311: dibutyl phthalate; ammonia; 1,3-dichloropropene Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act Section 112 : Listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals) **DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 313** 

	Product name	CAS number	Concentration
Form R - Reporting requirements	Diethylene glycol monobutyl ether	112-34-5	1-5
Supplier notification	☐ethylene glycol monobutyl ether	112-34-5	1-5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey: The following components are listed: GLYCOL ETHERSPennsylvania: The following components are listed: GLYCOL ETHERS

### California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer. **WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
dibutyl phthalate	No.	Yes.	No.	Yes.
dichloromethane	Yes.	No.	200 μg/day (inhalation)	No.
1,3-dichloropropene	Yes.	No.	No.	No.

#### Canada

WHMIS (Canada) : ☑ lass D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

#### Canadian lists

Canadian NPRI : The following components are listed: Diethylene glycol butyl ether

CEPA Toxic substances : None of the components are listed.Canada inventory : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### International regulations

International lists : Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.

Korea inventory: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

**Turkey inventory**: Not determined.

Chemical Weapons

**Convention List Schedule** 

: Not listed

**I Chemicals** 

Chemical Weapons

: Not listed

**Convention List Schedule** 

**II Chemicals** 

Chemical Weapons
Convention List Schedule

: Not listed

**III Chemicals** 

### 16. Other information

Label requirements : VAUSES EYE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET

ORGAN DAMAGE, BASED ON ANIMAL DATA. BIRTH DEFECT HAZARD - CAN CAUSE BIRTH DEFECTS. DEVELOPMENTAL HAZARD - CAN CAUSE ADVERSE

DEVELOPMENTAL EFFECTS. REPRODUCTIVE HAZARD.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection
Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of issue: 4/13/2016Date of previous issue: 4/11/2013

Version : 3

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.