



# SAFETY DATA SHEET

## DEEP POUR CURING AGENT - B

Version 1.1      Revision Date: 03/30/2016      SDS Number: 400001000022      Date of last issue: 02/19/2016  
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### Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

### Storage:

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Polyoxypropylene diamine	9046-10-0	60 - 100

## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.

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Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : No information available.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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Methods and materials for containment and cleaning up : Neutralize with acid.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Keep away from strong acids.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

#### Hand protection

Material : butyl-rubber  
Break through time : > 8 h

Solvent-resistant gloves (butyl-rubber)  
Nitrile rubber  
> 480 min

Glove thickness : 0.85 mm  
PVC

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230 min

- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles.  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.
- 

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : colorless
- Odor : ammoniacal
- Odor Threshold : No data available
- pH : 11.7, Concentration: 50 g/l
- Melting point/freezing point : No data available
- Boiling point : 232 °C  
(1,013.25 hPa)
- Flash point : 128 °C  
Method: ISO 2719, closed cup
- Evaporation rate : No data is available on the product itself.
- Flammability (solid, gas) : No data is available on the product itself.
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapor pressure : 0.9 hPa (20 °C)
- 2.1 hPa (50 °C)
- 1,013.25 hPa (232 °C)

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Relative vapor density : 1

Relative density : 0.9476 (20 °C)

Density : No data available

Solubility(ies)  
Water solubility : 100 g/l (20 °C)

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : log Pow: 1.34 (25 °C)

Autoignition temperature : 230 °C

Thermal decomposition : No data is available on the product itself.

Viscosity  
Viscosity, dynamic : 10.3 mPa.s (20 °C)  
5.08 mPa.s (40 °C)

Viscosity, kinematic : 10.9 mm<sup>2</sup>/s (20 °C)  
5.46 mm<sup>2</sup>/s (40 °C)

Oxidizing properties : None.

Self-Accelerating decomposition temperature (SADT) : No data is available on the product itself.

Molecular weight : No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition products : Ammonia  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Aldehydes  
Ketones  
Nitrogen oxides (NO<sub>x</sub>)

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### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data is available on the product itself.

#### **Acute toxicity**

Acute oral toxicity - Product : LD50 (Rat, male and female): 2,885.3 mg/kg  
Method: OECD Test Guideline 401

#### **Ingredients:**

Polyoxypropylene diamine:  
Acute inhalation toxicity : LC50 (Rat, male and female): > 0.74 mg/l  
Exposure time: 8 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403

Acute dermal toxicity - Product : LD50 (Rabbit, male and female): 2,979.7 mg/kg  
Method: OECD Test Guideline 402

Acute toxicity (other routes of administration) : No data available

#### **Skin corrosion/irritation**

##### **Product:**

Result: Corrosive after 1 to 4 hours of exposure

#### **Serious eye damage/eye irritation**

##### **Ingredients:**

Polyoxypropylene diamine:  
Species: Rabbit  
Result: Irreversible effects on the eye  
Assessment: Corrosive  
Method: OECD Test Guideline 405

#### **Respiratory or skin sensitization**

##### **Product:**

Routes of exposure: Skin  
Species: Guinea pig  
Result: Does not cause skin sensitization.

Routes of exposure: Respiratory Tract  
Species: Not Assigned  
Result: No data available

Routes of exposure: Skin  
Species: Not Assigned  
Result: No data available

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Assessment: No data available

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Concentration: 0 - 10000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: no

#### Product:

Genotoxicity in vivo : Application Route: Oral  
Dose: 500 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

### Carcinogenicity

No data available

Carcinogenicity - Assessment : No data available

### IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

#### Product:

Effects on fertility : Species: Rat, male and female  
Application Route: Dermal  
Method: OECD Test Guideline 421  
GLP: yes

Effects on fetal development : No data available

Reproductive toxicity - Assessment : No data available



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### STOT-single exposure

No data available

### STOT-repeated exposure

No data available

### Repeated dose toxicity

#### Product:

Species: Rat, male and female  
NOAEL (No observed adverse effect level): > 250 mg/kg  
Application Route: Dermal  
Exposure time: 90 Days  
Number of exposures: 5 d  
Subsequent observation period: 28 days  
Method: Subchronic toxicity

Species: Rat, male and female  
NOAEL (No observed adverse effect level): > 239 mg/kg  
Application Route: oral (feed)  
Exposure time: 31 Days  
Method: Subacute toxicity

Species: Rat, male and female  
NOAEL (No observed adverse effect level): 100 mg/kg  
Application Route: Dermal  
Exposure time: 28 Days  
Number of exposures: 5 d  
Method: Subacute toxicity

Repeated dose toxicity - Assessment : No data available

### Aspiration toxicity

No data available

### Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

### Toxicology, Metabolism, Distribution

No data available

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### Neurological effects

No data available

### Further information

#### Product:

Remarks: No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

- Toxicity to fish - Product : EC50 (Oncorhynchus mykiss (rainbow trout)): > 15 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203
- LC50: 772.14 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Marine water  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates - Product : EC50 (Daphnia magna (Water flea)): 80 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202
- EC50 (Acartia tonsa): 418.34 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Marine water
- Toxicity to algae - Product : ErC50 (Selenastrum capricornutum (green algae)): 15 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201
- EbC50 (Skeletonema costatum): 141.72 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Marine water  
Method: ISO 10253
- M-Factor (Acute aquatic toxicity) : No data available
- Toxicity to fish (Chronic toxicity) : No data available
- Toxicity to daphnia and other : No data available

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aquatic invertebrates  
(Chronic toxicity)

M-Factor (Chronic aquatic toxicity) : No data available

Toxicity to bacteria : No data available

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment  
Acute aquatic toxicity : No data available

### **Ingredients:**

Polyoxypropylene diamine:  
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Further information:  
No data available

### **Persistence and degradability**

#### **Ingredients:**

Polyoxypropylene diamine:  
Biodegradability : Inoculum: Mixture  
Result: Not biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

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BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation - Product : Test Type: Air

Impact on Sewage Treatment : No data available

### Bioaccumulative potential

Bioaccumulation : No data available

Partition coefficient: n-octanol/water - Product : log Pow: 1.34 (25 °C)

### Mobility in soil

Mobility : No data available

Distribution among environmental compartments : No data available

Stability in soil : No data available

### Other adverse effects

Environmental fate and pathways : No data available

Results of PBT and vPvB assessment : No data available

Endocrine disrupting potential : No data available

Adsorbed organic bound halogens (AOX) : No data available

### Hazardous to the ozone layer

Ozone-Depletion Potential      Not applicable

Additional ecological information - Product : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

Global warming potential (GWP) : No data available



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Class : 8  
Packing group : III  
Labels : CORROSIVE  
ERG Code : 153  
Marine pollutant : no

### SECTION 15. REGULATORY INFORMATION

**TSCA - 5(a) Significant New Use Rule List of Chemicals** : Not relevant

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
PROPYLENE OXIDE (PO)	75-56-9	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : Acute Health Hazard

**California Prop 65**      WARNING! This product contains a chemical known in the State of California to cause cancer.  
methyloxirane      75-56-9

#### The ingredients of this product are reported in the following inventories:

CH INV : The mixture contains substances listed on the Swiss Inventory  
TSCA : On TSCA Inventory  
DSL : All components of this product are on the Canadian DSL.  
AICS : On the inventory, or in compliance with the inventory  
NZIoC : On the inventory, or in compliance with the inventory  
ENCS : On the inventory, or in compliance with the inventory  
ISHL : On the inventory, or in compliance with the inventory  
KECI : On the inventory, or in compliance with the inventory  
PICCS : On the inventory, or in compliance with the inventory  
IECSC : On the inventory, or in compliance with the inventory

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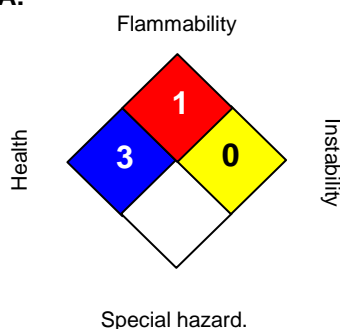
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### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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