

# MATERIAL SAFETY DATA SHEET

## PERFORMANCE EPOXY PART B

### SECTION 1. Product and company identification

**Product name:** Performance Epoxy™ Curing Agent Part B

**MSDS Number:** 1489

**Internal code:** K8169

**Product Type:** Curing Agent.

#### **Company Identification**

Performance Epoxy

169 Gratiot

Mt. Clemens, MI 48043

**Manufacturer's Phone:** 1-800-841-5580

**24-Hour Medical Emergency:** CHEMTREC US Domestic (800) 424-9300  
CHEMTREC International (703) 527-3887

### SECTION 2. Hazards identification

<b>Form:</b>	liquid.
<b>OSHA/HCS status:</b>	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Emergency overview:</b>	DANGER! HARMFUL IN CONTACT WITH SKIN OR IF SWALLOWED. CAUSES EYE AND SKIN BURNS. CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY REACTION.

#### **Potential acute health effects**

<b>Inhalation:</b>	Irritating to respiratory system. May cause sensitization by inhalation.
<b>Ingestion:</b>	Harmful if swallowed. May cause burns to mouth, throat and stomach.
<b>Skin:</b>	Corrosive to the skin. Causes burns. Harmful in contact with skin.
<b>Eyes:</b>	Corrosive to eyes. Causes burns.

#### **Potential chronic health effects**

<b>Chronic effects:</b>	Contains material that can cause target organ damage.
<b>Carcinogenicity:</b>	No known significant effects or critical hazards.
<b>Mutagenicity:</b>	No known significant effects or critical hazards.
<b>Teratogenicity:</b>	No known significant effects or critical hazards.
<b>Developmental effects:</b>	No known significant effects or critical hazards.
<b>Fertility effects:</b>	No known significant effects or critical hazards.
<b>Target organs:</b>	Contains material which causes damage to the following organs: blood, liver, upper respiratory tract, Review Section 2 and 11 for any additional assessments.

## **Over-exposure signs/symptoms**

<b>Inhalation:</b>	Adverse symptoms may include the following: respiratory tract irritation, coughing, wheezing and breathing difficulties, asthma.
<b>Ingestion:</b>	Adverse symptoms may include the following: stomach pains.
<b>Skin:</b>	Adverse symptoms may include the following: pain or irritation, redness, blistering may occur.
<b>Eyes:</b>	Adverse symptoms may include the following: pain or irritation, watering, redness.
<b>Medical conditions aggravated by over-exposure:</b>	Pre-existing respiratory disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

**See section 11 for more detailed information on health effects and symptoms.**

### **SECTION 3. Composition and information on ingredients**

<b>Ingredient name</b>	<b>CAS No.</b>	<b>Weight %</b>
Poly(oxypropylene) diamine MW 400	9046-10-0	50 - 70 %
Phenol, 4-Nonyl-, Branched	84852-15-3	30 - 50 %

*\*\* Any applicable Canadian trade secret numbers will be listed in Section 15.*

### **SECTION 4. First aid measures**

<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician. Get medical attention immediately.
<b>Skin contact:</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
<b>Inhalation:</b>	Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. In the event of any complaints or symptoms, avoid further exposure.
<b>Ingestion:</b>	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.
<b>Protection of first aid personnel:</b>	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
<b>Notes to physician:</b>	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**See section 11 for more detailed information on health effects and symptoms.**

## SECTION 5. Fire-fighting measures

<b>Flammability of the product:</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
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### Extinguishing media

<b>Suitable:</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable:</b>	Do not use water jet. Water or fog may cause frothing which can be violent, especially if sprayed into containers of hot or burning liquid.

<b>Special exposure hazards:</b>	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.
<b>Hazardous combustion products:</b>	Decomposition products may include the following materials: nitrogen oxides, carbon monoxide.
<b>Special protective equipment for fire-fighters:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6. Accidental release measures

<b>Personal precautions:</b>	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).
<b>Environmental precautions:</b>	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).
<b>Large spill:</b>	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.
<b>Small spill:</b>	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## SECTION 7. Handling and storage

<b>Handling:</b>	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. Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
<b>Storage:</b>	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.

## SECTION 8. Exposure controls/personal protection

### Consult local authorities for acceptable exposure limits.

<b>Recommended monitoring procedures:</b>	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.
<b>Engineering measures:</b>	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
<b>Hygiene measures:</b>	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.
<b>Respiratory:</b>	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.
<b>Hands:</b>	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.  Recommended: - neoprene - nitrile rubber - gauntlet type
<b>Eyes:</b>	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.
<b>Skin:</b>	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.
<b>Environmental exposure controls:</b>	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.

## SECTION 9. Physical and chemical properties

<b>Form:</b>	Liquid
<b>Flash point:</b>	Estimated. 124 °C (255 °F)
<b>Color:</b>	Water white
<b>Boiling point:</b>	> 260 °C (> 500 °F)
<b>Solubility:</b>	Partial

## SECTION 10. Stability and reactivity

<b>Stability:</b>	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid:</b>	Strong oxidizer, Exposure to water vapor. Keep away from heat, sparks, flame and other ignition sources.
<b>Materials to avoid:</b>	Strong acids, strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Decomposition products may include the following materials: nitrogen oxides, carbon monoxide, other organic compounds.

## SECTION 11. Toxicological information

### Acute toxicity

Ingredient name			
Poly(oxypropylene) diamine MW 400	LD50 Oral	Rat	1,100 mg/kg
	LD50 Dermal	Rabbit	1,550 mg/kg
Phenol, 4-Nonyl-, Branched	LD50 Oral	Rat	1,300 mg/kg
	LD50 Dermal	Rabbit	3,160 mg/kg

### Carcinogenicity Classification

Ingredient name		
Poly(oxypropylene) diamine MW 400	ACGIH	Not classified
	IARC	Not classified
	NTP	Not listed
	OSHA	Not regulated
Phenol, 4-Nonyl-, Branched	ACGIH	Not classified
	IARC	Not classified
	NTP	Not listed
	OSHA	Not regulated

## SECTION 12. Ecological information

<b>Environmental effects:</b>	No known significant effects or critical hazards.
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### Aquatic ecotoxicity

Ingredient name			
Phenol, 4-Nonyl-, Branched	Fresh water	Acute LC50 0.1383 mg/l/4 d	Fathead minnow
	Fresh water	Acute LC50 0.1351 mg/l/4 d	Bluegill
	Salt water	Acute LC50 0.142 mg/l/4 d	Sheepshead minnow

<b>Other adverse effects:</b>	No known significant effects or critical hazards.
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## SECTION 13. Disposal considerations

<b>Waste disposal:</b>	The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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## SECTION 14. Transportation

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

### International transport regulations

Regulatory information	UN number	Proper shipping name	Classes/*PG	Reportable Quantity (RQ)
CFR	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLENEDIAMINE)	Class 8 III	
TDG	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLENEDIAMINE)	Class 8 III	
IMO/IMDG	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLENEDIAMINE)	Class 8 III	
IATA (Cargo)	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLENEDIAMINE)	Class 8 III	

\*PG : Packing group

## SECTION 15. Regulatory information

### US regulations

<b>HCS Classification:</b>	Corrosive material, Sensitizing material, Target organ effects.
<b>U.S. Federal regulations:</b>	<p><b>SARA 311/312 Classification</b> Immediate (acute) health hazard, Delayed (chronic) health hazard.</p> <p><b>SARA 313 - Supplier Notification</b> This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372. None required.</p> <p><b>SARA 302 Extremely Hazardous Substances</b> None required.</p>
<b>State regulations:</b>	<p><b>Massachusetts RTK Substances</b> None required.</p> <p><b>New Jersey RTK Hazardous Substances</b> The following components are listed: Phenol, 4-Nonyl-, Branched.</p> <p><b>Pennsylvania RTK Hazardous Substances</b> None required.</p> <p><b>California Prop. 65:</b> None required.</p>

### Canada

<b>WHMIS (Canada):</b>	Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic). Class E: Corrosive material.
<b>Canadian lists:</b>	<b>Canadian NPRI:</b> The following components are listed: Phenol, 4-Nonyl-, Branched.

### International regulations

<b>Chemical inventories:</b>	Europe inventory All components are listed or exempted. Australia inventory (AICS) All components are listed or exempted. China inventory (IECSC) All components are listed or exempted. Japan inventory (ENCS) All components are listed or exempted. Japan inventory (ISHL) Not determined. Korea inventory (KECI) All components are listed or exempted. New Zealand Inventory of Chemicals (NZIoC) Not determined. Philippines inventory (PICCS) All components are listed or exempted. Canada inventory All components are listed or exempted. United States inventory (TSCA 8b) All components are listed or exempted.
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## **SECTION 16. Other information**

**Hazardous Material Information System III (U.S.A.)** Health : 3  
Flammability: 1  
Physical hazards : 0  
Chronic : \*

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®

### **Notice to reader:**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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