



# Material Safety Data Sheet

Revision Date: 14-Jan-2008

Revision Number: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** SUPER SPEC HP CONCRETE PATCH REPAIR KIT PART B  
(EPOXY RESIN)  
**Product Class** SOLVENT THINNED PAINT  
**Color** All

**Manufacturer** Benjamin Moore & Co.  
101 Paragon Drive  
Montvale, NJ 07645  
Phone: 201-573-9600  
www.benjaminmoore.com

**Emergency Telephone Number(s)**  
CHEMTREC: 800-424-9300

## 2. COMPOSITION INFORMATION ON COMPONENTS

### Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Oxirane, 2,2-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer	25085-99-8	95
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	10
2-Propenoic acid, ethyl ester	140-88-5	1

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

#### WARNING

Irritating to eyes. May cause skin irritation and/or dermatitis. May cause sensitization by skin contact. May cause irritation of respiratory tract. May be harmful if swallowed.

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components.

**Appearance** clear liquid

**Odor** Faint, epoxy

**OSHA Regulatory Status** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential Health Effects

**Principal Routes of Exposure** Eye contact, skin contact and inhalation.

**Acute Effects**

**Eyes**

Risk of serious damage to eyes.

**Skin**

May cause skin irritation and/or dermatitis. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**Inhalation**

High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects.

**Ingestion**

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Effects**

Avoid repeated exposure.

See Section 11 for additional Toxicological information.

**Aggravated Medical Conditions** None known

**HMIS**            **Health: 2\***            **Flammability: 1**            **Reactivity: 1**            **PPE: -**

**HMIS Legend**

0 - Minimal Hazard

1 - Slight Hazard

2 - Moderate Hazard

3 - Serious Hazard

4 - Severe Hazard

\* - Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

*Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.*

*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, Benjamin Moore & Co., has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.*

**4. FIRST AID MEASURES**

**General Advice**

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

**Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Inhalation**

Move to fresh air. If symptoms persist, call a physician.  
If not breathing, give artificial respiration. Call a physician immediately.

**Ingestion**

Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.

**Notes To Physician** Treat symptomatically  
**Protection Of First-Aiders** Use personal protective equipment.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Protective Equipment And Precautions For Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Specific Hazards Arising From The Chemical** Closed containers may rupture if exposed to fire or extreme heat.

**Sensitivity To Mechanical Impact** No

**Sensitivity To Static Discharge** No

**Flash Point Data**

Flash Point (°F)	450
Flash Point (°C)	232
Flash Point Method	PMCC

**Flammability Limits In Air**

Lower Explosion Limit	Not available
Upper Explosion Limit	Not available

**NFPA**      **Health:** 2      **Flammability:** 1      **Instability:** 0      **Special:** Not Applicable

### NFPA Legend

0 - Not Hazardous  
1 - Slightly  
2 - Moderate  
3 - High  
4 - Severe

*The ratings assigned by Benjamin Moore & Co. are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.*

*Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at [www.nfpa.org](http://www.nfpa.org).*

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. Avoid contact with the skin and the eyes.

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

**Methods For Clean-Up** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

**Other Information** None known

**7. HANDLING AND STORAGE**

**Handling** Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Wear personal protective equipment.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep in properly labeled containers.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Exposure Limits**

**Hazardous Components**

Chemical Name	ACGIH	OSHA
Oxirane, 2,2-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer	N/E	N/E
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	N/E	N/E
2-Propenoic acid, ethyl ester	5 ppm - TWA 15 ppm - STEL	100 mg/m <sup>3</sup> - TWA 25 ppm - TWA prevent or reduce skin absorption

**Legend**

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye/Face Protection** Safety glasses with side-shields.  
**Skin Protection** Long sleeved clothing. Protective gloves.  
**Respiratory Protection** In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.

**Hygiene Measures** Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. When using do not eat, drink or smoke.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** clear liquid  
**Odor** Faint epoxy  
**Density (lbs/gal)** 9.230

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity	1.111
pH	Not available
Viscosity (centistokes)	Not available
Solubility	Insoluble
Evaporation Rate	>1 (ether = 1)
Vapor Pressure	Not applicable
Vapor Density	>1 (air = 1)
Wt. % Solids	99.0
Vol. % Solids	98.8
Wt. % Volatiles	1.0
Vol. % Volatiles	1.2
VOC Regulatory Limit (g/L)	Not available
Boiling Point (°F)	340
Boiling Point (°C)	171
Freezing Point (°F)	Not available
Freezing Point (°C)	Not available
Flash Point (°F)	450
Flash Point (°C)	232
Flash Point Method	PMCC
Upper Explosion Limit	Not available
Lower Explosion Limit	Not available

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Conditions To Avoid	Temperatures above 60 °C, Prolonged heat.
Incompatible Materials	Strong oxidizing agents, Strong acids.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx).
Possibility Of Hazardous Reactions	None under normal conditions of use.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product

Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

#### Component

Oxirane, 2,2-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer  
LD50 Oral: > 5000 mg/kg (Rat)

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

LD50 Oral: 19200 mg/kg (Rat)  
LD50 Dermal: > 4500 mg/kg (Rabbit)  
Sensitization: May cause sensitization by skin contact

2-Propenoic acid, ethyl ester  
LD50 Oral: 800 mg/kg (Rat)  
LD50 Dermal: 500 µL/kg (Rabbit) 1414 ppm (Rat, 4 hr.)

**Chronic Toxicity**

**Carcinogenicity**

The information below indicates whether each agency has listed any ingredient as a carcinogen:

<b>Chemical Name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA Carcinogen</b>
2-Propenoic acid, ethyl ester		2B - Possible Human Carcinogen		Listed

**Legend**

ACGIH - American Conference of Governmental Industrial Hygienists  
IARC - International Agency for Research on Cancer  
NTP - National Toxicity Program  
OSHA - Occupational Safety & Health Administration

**Sensitization:**

May cause sensitization by skin contact

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity Effects**

**Product**

**Acute Toxicity to Fish**

No information available

**Acute Toxicity to Aquatic Invertebrates**

No information available

**Acute Toxicity to Aquatic Plants**

No information available

**Component**

**Acute Toxicity to Fish**

No information available

**Acute Toxicity to Aquatic Invertebrates**

No information available

## 12. ECOLOGICAL INFORMATION

### Acute Toxicity to Aquatic Plants

No information available

## 13. DISPOSAL CONSIDERATIONS

### **Waste Disposal Method**

Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

## 14. TRANSPORT INFORMATION

### **DOT**

Not regulated

### **ICAO / IATA**

Contact Benjamin Moore & Co. for further information.

### **IMDG / IMO**

Contact Benjamin Moore & Co. for further information.

## 15. REGULATORY INFORMATION

### International Inventories

#### **United States TSCA**

Yes - All components are listed or exempt.

#### **Canada DSL**

Yes - All components are listed or exempt.

### Federal Regulations

#### SARA 311/312 hazardous categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
2-Propenoic acid, ethyl ester	140-88-5	1

*This product may contain trace amounts of (other) SARA reportable chemicals. Contact Benjamin Moore & Co. for further information.*

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following HAPs:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
2-Propenoic acid, ethyl ester	140-88-5	1

*This product may contain trace amounts of (other) HAPs chemicals. Contact Benjamin Moore & Co. for further information.*

**State Regulations**

**California Proposition 65**

*This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.*

**State Right-to-Know**

<u>Chemical Name</u>	<u>Massachusetts</u>	<u>New Jersey</u>	<u>Pennsylvania</u>	<u>Louisiana</u>	<u>Rhode Island</u>
2-Propenoic acid, ethyl ester	X	X	X		X

**Legend**

X - Listed

**16. OTHER INFORMATION**

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

**Prepared By** Product Stewardship Department  
Benjamin Moore & Co.  
360 Route 206 - P.O. Box 4000  
Flanders, NJ 07836  
866-690-1961

**Revision Date:** 14-Jan-2008  
**Revision Summary** Not available



Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

**End of MSDS**