



Material Safety Data Sheet

Revision Date: 08-Aug-2008

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SUPER SPEC HP CONCRETE PATCH REPAIR KIT PART B
(EPOXY RESIN)
Product Code KP72B

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

Emergency Telephone Number(s)
CANUTEC: 613-996-6666

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	60 - 100%
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	5 - 10%
2-Propenoic acid, ethyl ester	140-88-5	0.5 - 1.5%

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

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				
Upper Explosion Limit	Not available			
Lower 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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with skin, eyes and clothing.
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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 / PERSONAL PROTECTION

Exposure Limits

Hazardous Components

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
Oxirane, 2,2-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer	N/E	N/E	N/E	N/E	N/E
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	N/E	N/E	N/E	N/E	N/E
2-Propenoic acid, ethyl ester	5 ppm - TWA 15 ppm - STEL	STEL: 61 mg/m ³ , 15 ppm TWA: 20 mg/m ³ , 5 ppm	STEL: 15 ppm TWA: 5 ppm Capable of causing respiratory, dermal or conjunctival sensitization.	TWA: 5 ppm, STEL: 15 ppm, Can be absorbed through the skin.	STEL: 61 mg/m ³ , 15 ppm TWA: 20 mg/m ³ , 5 ppm C3 Detected carcinogenic effect in animals. Sensitiser.

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

Alberta - Alberta Occupational Exposure Limits

British Columbia - British Columbia Occupational Exposure Limits

Ontario - Ontario Occupational Exposure Limits

Quebec - Quebec Occupational 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 case of insufficient ventilation wear suitable respiratory equipment. 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)	9.23
Specific Gravity	1.11
pH	Not available
Viscosity (centistokes)	Not available
Solubility	Insoluble
Evaporation Rate	1
Vapor Pressure	Not available
Vapor Density	1
Wt. % Solids	99
Vol. % Solids	99
Wt. % Volatiles	1
Vol. % Volatiles	1
VOC (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

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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:

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
2-Propenoic acid, ethyl ester		2B - Possible Human Carcinogen		

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

12. ECOLOGICAL INFORMATION

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

Acute Toxicity to Aquatic Plants

No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

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

14. TRANSPORT INFORMATION

TDG

Not regulated in small containers.

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.

National Pollutant Release Inventory (NPRI)

NPRI Parts 1- 4

This product contains the following Parts 1-4 NPRI chemicals:

Chemical Name	CAS-No	Weight % (max)
2-Propenoic acid, ethyl ester	140-88-5	0.5 - 1.5%

This product may contain trace amounts of (other) NPRI Parts 1-4 reportable chemicals. Contact Benjamin Moore & Co. for further information.

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

This product may contain trace amounts of (other) NPRI Part 5 reportable chemicals. Contact Benjamin Moore & Co. for further information.

WHMIS Regulatory Status

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

WHMIS Hazard Class

D2A Very toxic materials



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 logging onto Health Canada @ http://www.hc-sc.gc.ca/iyh-vsv/prod/paint-peinture_e.html.

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Disclaimer

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KP72B
End of MSDS