



BMK Corporation

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MATERIAL SAFETY DATA SHEET

Date Revised: 04/07/2011

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BMK Corporation
4387 North Rider Trail
Earth City, MO 63045
Tel: 314-344-3330

Emergency Phone Number
CHEMTREC: 800-424-9300
PROSAR: 800-228-5635

1. Product

Name: POLECRETE™ STABILIZER - Part A
POLECRETE™ STABILIZER-6.0 - Part A
POSTLOC® - Part A
PADCRETE - Part A
FOAM REPAIR KIT - Part A
PIPE JOINT KIT – Part A

Class: Polyurethane-Foam Base

H.M.I.S. Hazard Codes

Health..... 3 Serious
Flammability..... 1 Slight
Reactivity..... 1 Slight
Personal Protective Equipment... B Safety Glasses, Gloves

2. Hazardous Ingredients

Material Ingredient Description	C.A.S. Registry No.	% by Wt.
Polyethylene polyphenyl isocyanate	009016-87-9	90-100%
containing 4,4' Methylene bisphenyl isocyanate	000101-68-8	N/A

(See Regulatory Information Page)

3. Health Hazard Data

EMERGENCY OVERVIEW

Brown liquid. Slightly musty. Sprayed or heated material harmful if inhaled. May cause allergic skin reaction. May cause allergic respiratory reaction and lung injury. Avoid temperatures above 105°F (41°C). Toxic flammable-gases and heat are released under decomposition conditions. Toxic fumes may be released in fire situations. Reacts slowly with water, releasing carbon dioxide, which can cause pressure buildup and rupture of closed containers. Elevated temperatures accelerate this process.

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

- **EYE:** May cause moderate eye irritation. May cause very slight transient (temporary) corneal injury.
- **SKIN:** Prolonged or repeated exposure may cause slight skin irritation. May cause allergic skin reaction in susceptible individuals. Animal studies have shown that skin contact with isocyanates may play a role in respiratory sensitization. May stain skin. A single prolonged exposure is not likely to result in the material being absorbed in harmful amounts.
- **INGESTION:** Single dose oral toxicity is considered to be low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

- **INHALATION:** At room temperature, vapors are minimal due to low vapor pressure. However, certain operations may generate vapor or aerosol concentrations sufficient to cause irritation or other adverse effects. Such operations include those in which the material is heated, sprayed, or otherwise mechanically dispersed such as drumming, venting or pumping. Excessive exposure may cause irritation of the eyes, upper respiratory tract, and lungs, and pulmonary edema (fluid in the lungs). May cause respiratory sensitization in susceptible individuals. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Effects may be delayed. Decreased lung function has been associated with overexposure to isocyanates.
- **SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** Tissue injury in the upper respiratory tract and lung has been observed in laboratory animals after repeated excessive exposures to MDI/polymeric MDI aerosols.
- **CANCER INFORMATION:** Lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/Polymeric MDI (6 mg/m³) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported by MDI.
- **TERATOLOGY (BIRTH DEFECTS):** In laboratory animals, MDI/polymeric MDI did not cause birth defects; other fetal effects occurred only at high doses, which were toxic to the mother.

4. First Aid

- **EYE:** Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.
- **SKIN:** Remove material from skin immediately by washing with soap and plenty of water (warm water if preferable if readily available). Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. An MDI skin decontamination study demonstrated that cleaning very soon after exposure is important, and that a Polyglycol-based skin cleanser or corn oil may be more effective than soap and water.
- **INGESTION:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
- **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel should administer oxygen. Call a physician or transport to a medical facility.
- **NOTE TO PHYSICIAN:** No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, Expectorants, and Antitussives may of help. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed for 24-48 hours for signs of respiratory distress.

5. Fire and Explosion Hazard Data

- **FLAMMABLE PROPERTIES**
 - FLASH POINT: >400°F, >204°C (Method Used: PMCC, ASTM D93)
 - AUTOIGNITION TEMPERATURE: >1100°F, 600°C
- **FLAMMABILITY LIMITS**
 - LFL: Not applicable
 - UFL: Not applicable
- **HAZARDOUS COMBUSTION PRODUCTS:** During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include but are not limited to nitrogen oxides, isocyanates, hydrogen cyanide, carbon monoxide, and carbon dioxide.
- **OTHER FLAMMABILITY INFORMATION:** Product reacts with water. Reaction may produce heat and/or gases. Reaction may be violent. Container may rupture from gas generation in a fire situation. Violent stream generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is produced when produce burns. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the auto-ignition temperatures possibly resulting in spontaneous combustion.
- **EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam, Water Fog or Fine Spray. Alcohol resistant foams (ATC type) are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Do not use direct water stream. May spread fire.

- **FIRE FIGHTING INSTRUCTIONS:** Keep people away. Isolate fire area and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Water is not recommended but may be applied in very large quantities as a fine spray when other extinguishing agents are not available. Contain firewater run-off if possible. Do not use direct water stream. May spread fire. Fight fire from protected location or safe distance. Consider Use of unmanned hose holder or monitor nozzles. Use water spray to cool fire exposed containers and fire affected zone until fire is out. Immediately withdraw all personnel from area in case of rising sound from venting safety device or discoloration of the container. Move container from fire area if this is possible without hazard.
- **PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant clothing with SCBA. This will not provide sufficient fire protection, consider fighting fire from a remote location. For protective equipment in post-fire or non-fire clean up situations, refer to the relevant sections.

6. Spill or Leak Procedures (See Section 15 for Regulatory Information)

- **PROTECT PEOPLE:** Avoid any contact. Barricade area. Clear non-emergency personnel from area. Keep upwind of spill. Ventilate area of leak or spill. The area must be evacuated and reentered by persons equipped for decontamination. Use appropriate safety equipment. If available, use foam to suppress vapors. For additional information, refer to 'Exposure Controls/Personal Protection', MSDS Section 8. See Section 10, Stability and Reactivity.
- **PROTECT THE ENVIRONMENT:** Contain liquid to prevent contamination of soil, surface water or ground water. Keep out of ditches, sewers, and water supplies. Should the product enter sewers or drains, it should be pumped into an open vessel. Emergency services may need to be called to assist in the cleanup operation.
- **CLEAN UP:** Supplies of suitable decontaminant should always be kept available. Absorb with material such as: sawdust, vermiculite, dirt, sand, clay, cob grit, Milisorb. Avoid materials such as cement powder. Collect material in suitable and properly labeled open containers. Do not place in sealed container. Prolonged contact with water results in a chemical reaction, which may result in rupture of the container. Place in: polylined fiber packs, plastic drums, or properly labeled metal containers. Remove to a well-ventilated area. Clean up floor areas. Attempt to neutralize by decontaminant solution: formulation 1: Sodium Carbonate 5-10%; Liquid Detergent 0.2%; Water to make up to 100%. Or formulation 2: Concentrated ammonia solution 3-8%; Liquid Detergent 0.2%; Water to make up 100%. If ammonia is used, use good ventilation to prevent vapor exposure. If you have any questions on how to neutralize call BMK Corporation.
Refer to Disposal Information, MSDS Section 13. See Section 7 and 15 for more specific information.

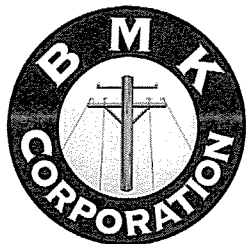
7. Special Precautions

- **HANDLING:** Avoid contact of this product with water at all times during handling and storage. Use only with adequate ventilation. Keep equipment clean. Use disposable containers and tools where possible. Do not eat, drink, or smoke in working area.
Refer to Exposure Controls/Personal Protection, Section 8, of the MSDS.
- **STORAGE:** Store in a dry place. Store between 75°F-105°F (24°C-41°C). Keep containers tightly closed when not in use. Protect from atmospheric moisture. Maintain a nitrogen atmosphere. Do not store product contaminated with water to prevent potentially hazardous reaction. See Section 10, "Stability & Reactivity".

8. Special Protection Information

ENGINEERING CONTROLS: Use only with adequate ventilation. Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and the people working at this point. Odor is inadequate warning of excessive exposure.

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MATERIAL SAFETY DATA SHEET

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1. Product

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POSTLOC® - Part B
PADCRETE - Part B
FOAM REPAIR KIT - Part B
PIPE JOINT KIT - Part B

Class: Polyurethane-Foam Base

H.M.I.S. Hazard Codes

Health..... 1 Slight
Flammability..... 1 Slight
Reactivity..... 0 Minimal
Personal Protective Equipment..... X Ask Supervisor for Handling

2. Hazardous Ingredients

Ingredient Material Description	% by Weight	C.A.S. Registry No.	LEL %	Vapor Pressure mm Hg @ 100°F/17°C
Amine Catalyst	0-2	98-94-2	N/A	3.6

3. Health Hazard Data

Effects of Overexposure:

- Liquid contact may cause eye irritation. Vapors may be mildly irritating to eyes.
- Repeated or prolonged skin contact may cause irritation and drying.

Threshold Limit Values: See Section 11

4. First Aid

Emergency and First Aid Procedures:

- Flush eyes with large amounts of water for at least 15 minutes.
- Get medical attention.
- Wash skin thoroughly with large amounts of soap and water.
- Consult a physician if irritation develops or persists.
- Remove contaminated clothing and wash before re-use.
- If affected by vapors, remove patient to fresh air and get medical attention. Give oxygen or artificial respiration if necessary. Do not give stimulants. Epinephrine and similar drugs may adversely affect the heart due to a possible risk of eliciting cardiac dysrhythmias.
- If swallowed, do not induce vomiting. Get medical attention immediately.
- The hazard of aspirating material into the lungs is greater than the hazard associated with allowing material to progress through the intestinal tract.

Carcinogenic According to NTP, IARC, or OSHA

- This product does not contain ingredients listed by NTP, IARC, or OSHA.

5. Fire and Explosion Hazard Data

Flash Point: Greater than 300°F (Method Used: Pensky-Martens)

Explosive Limits: LEL UEL (%V in air)

Flammability Classification:

- **DOT:** Not regulated for flammability

Extinguishing Media:

- Foam, alcohol foam, carbon dioxide, dry chemical, water fog.

Special Fire Fighting Procedures:

- Fire fighters should wear a self-contained breathing apparatus with full face-piece operated in a positive pressure mode.
- Fire fighters should wear full protective clothing to guard against exposure to toxic and irritating fumes.
- Spray containers exposed to fire and heat with water to keep cool.

Unusual Fire and Explosion Hazards:

- Do not weld or use a cutting torch on or near drums, even if empty.
- Empty drums contain residual material, which may decompose to emit toxic or irritating fumes if burned.

6. Spill or Leak Procedures

Steps for Material Spillage:

- 1) Properly protected personnel should contain the spill & soak it up with absorbent material.
- 2) Shovel the absorbed material into containers for disposal.

Waste Disposal Methods:

- Dispose of according to federal, state, and local regulations.
- Empty containers retain product residue and are subject to all of the handling instructions on this sheet.

7. Special Precautions

Handling and Storage Precautions:

- Avoid unnecessary skin contact with this product.
- Avoid breathing vapors.
- Provide adequate ventilation during use.
- Wear an appropriate respirator during and after use unless airborne concentrations are known to be below the TLV.

Other Precautions:

- Store in cool, dry location.
- Keep containers tightly sealed and upright when not in use.

8. Special Protection Information

Respiratory Protection:

- Under normal conditions, respiratory protection is not necessary. However, if the TLV for the solvent is exceeded, use a NIOSH/MSHA approved organic vapors mask. If the TLV is greatly exceeded, or in confined or poorly ventilated areas, use a positive pressure, air supplied or self-contained breathing apparatus.

Ventilation:

- Mechanical or local exhaust is required to keep concentrations below the TLV and/or to prevent any accumulation of vapors.
- Vapors are heavier than air and will collect in low areas such as pits or tanks, reducing the oxygen available for breathing. NEVER ENTER AN AREA OF UNKNOWN CONCENTRATION WITHOUT FULL RESPIRATORY PROTECTION!

Protective Gloves:

- Chemical resistant gloves.

Eye protection:

- Chemical safety glasses or splash goggles to prevent eye contact.
- Do not wear contact lenses.

Other Protective Equipment:

- If needed to prevent unnecessary skin contact.

Primary Routes of Entry:

- Skin contact
- Inhalation

9. Physical Data

- Boiling Range.....Above 400°F
- Freezing Point..... N/A
- Vapor Pressure..... N/A
- Vapor Density..... No Data
- Specific Gravity..... 1.09
- Water Soluble.....Soluble
- Evaporation Rate.....Slower (relative to n-butyl acetate)
- % Volatile by Volume..... Less than 1%
- Appearance and Odor.....Clear to dark amber liquid; faint ethereal odor

10. Reactivity Data

- **Stability:** Stable
- **Stability Conditions to Avoid:** Open flames, welding arcs, or other high temperature sources can induce thermal decomposition.
- **Hazardous Decomposition Products:** CO, CO₂
- **Hazardous Polymerization:** Will not occur
- **Polymerization Conditions to Avoid:** None

11. Toxicological Information

Ingredient Material Description	PEL (mg/m ³)	TLV (mg/m ³)	TWA (ppm)	LD50		LC50 Rat Inhale (ppm)
				Rat Oral (mg/kg)	Rbt. Dermal (mg/kg)	
Amine Catalyst	56	168	3	N/A	N/A	N/A

12. Ecological Information

- Not Available

13. Disposal Considerations (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT PUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. BMK CORPORATION HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCTS AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information on Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destructive device.

14. Transport Information

- DOT CLASSIFICATION/DESCRIPTION
For DOT regulatory information, if required, consult transportation regulations, product shipping papers, or your BMK representative.
- CANADIAN TDG INFORMATION
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your BMK representative.

15. Regulatory Information

(Not meant to be all inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that it is activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSDS sheet for health and safety information.

U. S. Regulations

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR.

Part 372:

CHEMICAL NAME	CAS Number	CONCENTRATION
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SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
- A delayed health hazard

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

All ingredients are on the TSCA Section 8 (b) Inventory.

CANADIAN REGULATIONS

The Workplace Hazardous Materials Information System (W.H.M.I.S.) Classifications for this product is:

- D1B
- D2A
- D2B

16. Other information

The reaction of polyols and isocyanates generate heat. Contact of the reaction materials with skin or eyes can cause severe burns and may be difficult to remove from the affected areas. Immediately wash the affected areas with plenty of water and seek medical assistance.

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, BMK Corporation, Inc. makes no warranty with respect thereto and disclaims any liability from reliance thereon.

* Note: Header Change