



# Material Safety Data Sheet

## 1. Product and Company Identification

**Product Code** MPA  
**Product Name** BRICKFORM® Mottling and Penetrating Agent™

**Manufacturer** .....BRICKFORM, A Division of Solomon Colors, Inc.  
**Address** ..... 11061 Jersey Blvd.  
**City, State, Zip** ....Rancho Cucamonga, CA 91730

**Emergency Phone** .....800-373-7542  
**Business Phone** .....909-484-3399  
**Business Fax** .....217-744-2605

**Last Updated** June 28, 2010

## 2. Composition / Information on Ingredients

Chemical Name	CAS No.	ACGIH TLV	OSHA PEL	STEL
2-Butoxyethanol	111-76-2	25 ppm	25 ppm	N/A

## 3. Hazards Identification

### Emergency Overview

Clear Liquid. Exposure if inhaled, swallowed or absorbed through skin or eyes can affect the body and cause blood disorders based on animal data.

### Signs and Symptoms of Exposure

#### Ingestion

May cause discomfort if swallowed.

#### Inhalation

Breathing of the vapor may irritate the nose and throat. Asthma and other respiratory conditions may be aggravated by exposure.

#### Eyes

May cause irritation, inflammation or abrasion.

#### Skin

Prolonged and repeated contact can cause discomfort.

### Potential Environmental Hazards

N/A

## 4. First Aid Measures

### Ingestion

CALL A POISON CONTROL CENTER AT ONCE. Do not induce vomiting unless instructed by medical personnel..

### Inhalation

Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately..

### Eyes

DO NOT RUB. Flush eyes with plenty of water for 15 minutes while holding eyelids open and GET MEDICAL ATTENTION IMMEDIATELY.

### Skin

Wash exposed areas with water and then, with soap and water. Remove contaminated clothing and shoes; do not reuse until cleaned. If irritation persists or develops, get medical attention.

continued

## 5. Fire Fighting Measures

**Flash Point** 62°C (143°F)

**Autoignition Temperature** 238°C (460°F)

**Unusual Fire Explosion Hazards**

Forms peroxides of unknown stability. Combustible

**Extinguishing Media**

Use water fog, foam, or dry chemical.

**Special Fire Fighting Procedures**

Firefighters should use a self-contained breathing apparatus and protective clothing. Use water-spray to keep fire exposed containers cool.

**Lower Explosive Limit** 1.1 @ 93°C (200°F)

**Upper Explosive Limit** 12.7 @ 135°C (275°F)

## 6. Accidental Release Measures

Shut off and eliminate all ignition sources. Keep people away. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Flush with water to a tank or an open well-ventilated area. Recover by pumping. USE EXPLOSION PROOF EQUIPMENT. Keep product out of sewers, watercourses, and soil by dyking or impounding. Apply a suitable absorbent such as sand, earth to the spill area. Do not use combustible materials such as sawdust. Control runoff and isolate discharge material for proper waste-disposal method. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Use non-leaking containers, seal tightly, and label properly. Dispose of in accordance with applicable local, county, state, and federal regulations.

## 7. Handling and Storage

**Safe Handling and Storage**

Keep away from heat light and open flame. Minimize exposure to air. After opening, purge containers with nitrogen before reclosing. If peroxide formation is suspected, do not open or move container. Do not distill to near dryness.

Addition of water or appropriate reducing materials will lessen peroxideformation. Keep containers closed.

## 8. Exposure Controls and Personal Protection

**Engineering controls**

Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Use explosion-proof equipment.

**Personal Protective Equipment**

Use splash goggles or face shield to protect face and eyes. Avoid inhalation and use only MSHA or NIOSH approved atmosphere supplying or air purifying respirators in confined or enclosed spaces for organic vapors, if needed. Use chemical-resistant gloves and avoid prolonged or repeated skin contact.

**Other Protective Clothing Equipment**

An eyewash station and a safety shower should be available.

**General Work Practices Hygiene Considerations**

Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Use good hygiene when handling this product. Cleanse skin thoroughly after handling and before eating or drinking. Product is easily removed with waterless, hand cleaners followed by washing thoroughly with soap and water. Remove contaminated clothing and launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean and dry before reuse.

**Exposure Guidelines**

Please see section 2.

## 9. Physical and Chemical Properties

**Physical State** Liquid

**Melting Point/Range** N/A

**Solubility in Water** Miscible

**pH** N/A

**Molecular Weight** 118.2

**Vapor Pressure (mmHg)** @ 20°C (68°F) .04 mmHG

**VOC** N/A

**Appearance/Color/Odor** Clear/Slight

**Boiling Point Range** 171°C (340°F)

**How to Detect this Compound** Odor

**Specific Gravity** (H<sub>2</sub>O = 1) 0.902

**Percent Volatiles** 100

**Vapor Density (Air=1)** 4.1

### 10. Stability and Reactivity

**Stability** Stable

**Hazardous Polymerization** Will not occur

**Conditions To Avoid** Heat and Open Flames

**Materials To Avoid** Oxidizing Materials

**Hazardous Decomposition Products** Decomposition products depend upon temperature, air supply, and the presence of other materials. Decomposition products may include Aldehydes, Ketones, or Organic Acids.

### 11. Toxicological Information

Oral LD-50: (rat)	1,746 mg/kg
Oral LD-50: (mouse)	1,519 mg/kg
Oral LD-50: (female guinea pig)	1,414 mg/kg
Inhalation LC-50: (mouse)	7h: 700 ppm
Inhalation LC-50: (female guinea pig)	1h: > 633ppm (highest concentration tested)
Inhalation LC-50: (male guinea pig)	1h: > 691 ppm
Dermal LD-50: (rabbit)	435 mg/kg
Dermal LD-50: (guinea pig)	> 2,000 mg/kg (only dose tested)
Skin Irritation: (guinea pig)	strong
Skin Irritation: (rabbit)	moderate
Eye Irritation: (rabbit)	moderate
Skin Sensitization: (human)	none

### 12. Ecological Information

N/A

### 13. Disposal Considerations

Use non-leaking containers, seal tightly and label properly. Dispose of in accordance with applicable local, county, state, and federal guidelines. Do not dispose in streams, wells, lakes, rivers, oceans, or sewers.

### 14. Transportation Information

**DOT Proper Shipping Name** Solvent

**DOT Hazard Class ID Number** Non-hazardous. Not required. Class 55.

### 15. Regulatory Information

**Reportable Quantity** N/A

**NFPA Rating** 0=Insignificant, 1=Slight, 2=Moderate, 3=High, 4=Extreme

**Health** 2

**Flammability** 2

**Reactivity** 0

**Carcinogenicity Lists** No

**NTP** Yes

**IARC Monograph** No

**OSHA Regulated** Yes

continued

**15. Regulatory Information...continued**

**STATE WARNING**

**California Prop 65:** N/A

Many States have adopted Federal guidelines and restrictions for hazardous chemicals. A complete list is available at [www.epa.gov/ceppo/pubs/title3.pdf](http://www.epa.gov/ceppo/pubs/title3.pdf). Some states have expanded the Federal List and you should check with your local regulatory agency for any additional restrictions on the hazardous chemicals listed in this section.

**FEDERAL WARNING**

Section 313 Supplier Notification: This product contains the following toxic chemical(s) subject to the reporting requirements of SARA TITLE III, Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#	CHEMICAL NAME	%BY WEIGHT
111-76-2	2-Butoxyethanol	100

**16. Other Information**

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure.

This MSDS has been prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200). To the best of our knowledge, the information contained herein is accurate and the information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change, BRICKFORM makes no warranty, either expressed or implied with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. The data on this sheet is related only to this specific material. It may not be valid for this material if used in combination with any other materials. It is the user's responsibility to determine suitability and completeness of this information with regards to a particular use. Additional information may be necessary or helpful for specific conditions and circumstances of use. Unknown hazards may exist and this material should be used with caution. BRICKFORM assumes no legal responsibility for use or reliance upon this data.