

Potter Electric Signal Company, LLC	MATERIAL SAFETY DATA SHEET Potter Pipe-Shield™	
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Potter Pipe-Shield™

MSDS Revision Number: 06

MSDS Revision Date: 08/24/2011

Product Description/Name: Potter Pipe-Shield™ Internal coating material for fire sprinkler pipe and systems.

COMPANY IDENTIFICATION	EMERGENCY TELEPHONE NUMBERS
Potter Electric Signal Company, LLC 1609 Park 370 Place Hazelwood, MO 63042 Telephone: 1-800-325-3936 Website: http://www.MIC-Test.com E-mail: sales@pottersignal.com	HEALTH EMERGENCY : 1-314-853-6983 24 hour access SPILL EMERGENCY : 1-314-853-6983 24 hour access

2. COMPOSITION/INFORMATION ON INGREDIENTS

No	Name	CAS REG NO	WEIGHT (%)
1	Quaternary Ammonium Compounds, Benzylcoco Alkyldimethyl, Chlorides	61789-71-7	22.0-25.0 (volume %)
2	<i>Inert Ingredients</i>	<i>N/A</i>	73.0 – 77.0 (volume %)
3	<i>Sodium Bicarbonate</i>	<i>00144-55-8</i>	1.0-2.0
4	<i>Polydimethylsiloxane Compound</i>	<i>Mixture</i>	>.001
5	<i>Amines, Coco Alkyldimethyl</i>	<i>61788-93-0</i>	>.001

3. HAZARDS IDENTIFICATION

Physical State and Appearance: Liquid

Odor: Amine

Color: Amber

Primary Routes of Exposure:

- Inhalation
- Skin Contact
- Eye Contact
- Ingestion

Inhalation

Inhalation of vapor or mist can cause the following:
 burns- irritation of nose, throat, and lungs - headache - nausea - dizziness - drowsiness - loss of coordination

Eye Contact

Direct contact with material can cause the following:
burns- irritation and redness

Skin Contact

Material can cause the following:
burns, skin irritation and dermatitis

Ingestion

Ingestion of material may cause the following:
burns of the throat, esophagus, and stomach lining, minor diarrhea

Prolonged or repeated skin contact can cause the following:
Drying of the skin which can lead to irritation and dermatitis - skin sensitization in susceptible individuals

Delayed Effects

None Reported

Not Known

Emergency Overview

Causes Eye and Skin Burns. May be Harmful if Swallowed.

4. FIRST AID MEASURES

Inhalation

Move subject to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Get prompt medical attention.

Eye Contact

Flush eye(s) with a large amount of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Do not let victim rub eye(s). Do not attempt to neutralize with chemical agents. Do not use an eye ointment. See a physician stat.

Skin Contact

IMMEDIATELY get under a safety shower. Wash affected skin areas thoroughly with a mild soap and water for a minimum of 15 minutes. Remove and wash contaminated clothing thoroughly. Thoroughly clean shoes before reuse. Material may build up within clothing, gloves and continuous contact with skin. Practice good hygiene: Wash hands and affected areas often when handling, before eating, etc. Do not take clothing home to be laundered. Get prompt medical attention.

Ingestion

If swallowed, give 2 glasses of milk, egg whites or water to drink. If affected person is conscious, continue to give plenty of water to drink. If vomiting occurs, keep head below the hips to reduce the risks of aspiration. Never give anything by mouth to an unconscious person. IMMEDIATELY see a physician and call a poison control center.

Notes to Physician

Attending physician should treat exposed patients symptomatically.

5. FIRE FIGHTING MEASURES

<i>Flash Point</i>	<i>N/A Not Flammable</i>
<i>Auto-ignition Temperature</i>	<i>N/A</i>
<i>Lower Explosive Limit</i>	<i>N/A</i>
<i>Upper Explosive Limit</i>	<i>N/A</i>

Unusual Hazards

Pressure will develop in drums if temperatures over 195 °F are achieved.

Extinguishing Agents

Use the following extinguishing media when fighting fires involving this material:
- carbon dioxide - dry chemical - water spray - polar solvent (alcohol) foam

Personal Protective Equipment

Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

Special Procedures & Remarks

Product is not flammable. Pressure may build up in drums due to expansion from surrounding heat. Water can be used to cool containers to avoid pressure build up from heat of adjacent fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow. Remove all contaminated clothing promptly. Wash all exposed skin areas with soap and water immediately after exposure. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered.

Procedures

Ventilate the spill area. Avoid breathing vapor. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

NOTE: Spills on porous surfaces can contaminate groundwater.

7. HANDLING AND STORAGE

Storage Conditions

The minimum recommended storage temperature for this product is 0C/32F. Store in tightly closed containers. The maximum recommended storage temperature for this product is 48C/118F. Store in a cool, well-ventilated area away from incompatible materials. Exercise due caution to prevent damage to or leakage from container.

If neat product is transferred from original shipping container, transfer and store in polypropylene or polyvinyl containers.

Long term storage of neat product in steel containers, may result in some corrosive action to the storage vessels.

Do not store this material near food, feed or drinking water. Store away from excessive heat (e.g. steam pipes, radiators), and from reactive materials.

Handling Procedures

Do not handle material near food, feed or drinking water. This material is a skin and eye irritant. See SECTION 8, Exposure Controls/Personal Protection, prior to handling. Wear suitable protective clothing and eye/face protection. Follow all warnings and precautions even after container is empty.

Other

Emptied containers retain product residue (vapors and/or liquid). Therefore, follow all MSDS and label warnings even after container is emptied. Keep container tightly closed and sealed until ready for use. Wash hands thoroughly after handling. Do not reuse container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Information:

Quaternary Ammonium Compounds, Benzylcoco Alkyldimethyl, Chlorides: Not Available

Sodium Bicarbonate: Not Available

Polydimethylsiloxane Compound: Not Available

Amines, Coco Alkyldimethyl: Not Available

Respiratory Protection

Not normally needed. However, if strong fumes are present, use a NIOSH or MESA approved respirator for organic vapors. Sensitivity may occur in certain individuals at lower concentrations of vapors. Respiratory usage is recommended by these individuals whenever handling this material or exposure to vapors is possible.

Skin Protection

Skin contact with this product should be prevented through the use of suitable clothing, gloves and footwear selected with regard for use condition exposure potential. Protective equipment made of neoprene or nitrile rubber is recommended.

Eye Protection

Wear chemical splash goggles (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed. Appropriate face protection should be worn wear fumes are strong or individual sensitivity is noted, along with chemical splash goggles and respirator.

Hand Protection

Chemical-resistant gloves should be worn whenever this material is handled.

Glove permeation data does not exist for this material. The following glove(s) should be used for splash protection only:

Nitrile or Neoprene

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.

Other Protection

Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact. Certain individuals may have a sensitivity or allergic response to the product. These individuals should wear appropriate personal protection whenever handling or exposure to vapor is possible. Ensure that eyewash and safety showers are proximal to the work station location. Water should be should supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather.

Engineering Controls (Ventilation)

Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of **Industrial Ventilation: a Manual of Recommended Practice** published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance</i>	<i>Translucent</i>
<i>Color</i>	<i>Amber</i>
<i>State</i>	<i>Liquid</i>
<i>Odor Characteristic</i>	<i>distinct amine odor</i>
<i>pH</i>	<i>6.8 - 7.5 Aqueous solution</i>
<i>Specific Gravity (Water = 1)</i>	<i>0.98 - 1.02</i>
<i>Vapor Density (Air = 1)</i>	<i>1.2</i>
<i>Melting Point</i>	<i>-6.7 C/25 F</i>
<i>Boiling Point</i>	<i>90 C/194 F</i>
<i>Solubility in Water</i>	<i>Complete</i>

10. STABILITY AND REACTIVITY

Instability

This material is considered stable. However, avoid storage of material in excessive heat.

Hazardous Decomposition Products

Thermal decomposition may yield the following:

Carbon Dioxide, Carbon Monoxide, Nitrous Oxide

Hazardous Polymerization

Product will not undergo polymerization.

Incompatibility

Avoid contact with the following:

Reactive with strong oxidizers.

11. TOXICOLOGICAL INFORMATION

Acute Data

Eye: Irritation, Redness, Discomfort

Skin: Irritation, Redness, Discomfort

Inhalation: Nose, Throat and Chest Irritation

Sub chronic/Chronic Data

N/A

Carcinogenicity Data

No evidence of carcinogenic activity has been observed with any components of this product.

Mutagenicity Data

No evidence of mutagenic activity has been observed with any components of this product.

Reproductive/Teratology Data

No evidence of teratogenicity has been observed with any components of this product.

Sensitization Data

Skin sensitization: May occur with some individuals

12. ECOLOGICAL INFORMATION

Environmental Toxicity

This product demonstrated no adverse response to standard lettuce growth studies.

**Biodegradability: Readily Biodegradable Closed Bottle Test 63% at day 28*

**Biodegradability based on similar product testing.*

13. DISPOSAL CONSIDERATIONS

Procedure

Dispose of residual product and containers in a manner which meet all Federal, State, and Local regulations.

14. TRANSPORT INFORMATION

US DOT Hazard Class	Not Regulated Packing Group III
Marine Pollutant	Not Pollutant
TDG Classification	Not Regulated

This classification is used when shipping containers for domestic surface transportation only. Exceptions in CFR 49 Parts 171-177 may apply. Consult CFR 49 Parts 171-177 to determine appropriate classification when shipping containers by air or ocean.

15. REGULATORY INFORMATION

RCRA	No Products Found
SARA 302/304/311/312: Extremely Hazardous Substances	No Products Found
SARA 302/304: Emergency Planning and Notification	No Products Found
SARA 302/304/311/312: Hazardous Chemicals	No Products Found
SARA 311/312: MSDS Distribution Chemical Inventory	No Products Found
Clean Water Act 307	No Products Found
Clean Water Act 311	No Products Found
Clean Air Act	No Products Found
TSCA 8(b) Inventory	Quaternary Ammonium Compounds, Benzylcoco Alkyldimethyl Chlorides, Sodium Bicarbonate, Polydimethylsiloxane, Amines, Coco Alkyldimethyl.

Canada:

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

State Regulations:

California Prop 65: No Products were found

16. OTHER INFORMATION

Potter Electric Signal Company, LLC

Hazard Rating		Scale
Health	1	4=EXTREME
Fire	0	3=HIGH
Reactivity	0	2=MODERATE
Special	-	1=SLIGHT
		0=INSIGNIFICANT

Ratings are based on Potter Electric Signal Company, LLC, guidelines, and are intended for internal use.

ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists
OSHA = Occupational Safety and Health Administration
TLV = Threshold Limit Value
PEL = Permissible Exposure Limit
TWA = Time Weighted Average
STEL = Short-Term Exposure Limit
Italics denote a revision from previous MSDS in this area.

The information contained herein relates only to the specific material identified. Potter Electric Signal Company, LLC believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. Potter Electric Signal Company, LLC urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.