

# Material Safety Data Sheet

Revision Date: 04-19-2012

Product Code: 99959

## I. PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** CHEM-O-PON MASTIC HARDENER  
**Product Code:** 99959  
**Document ID:** M99959  
**Company:** JONES-BLAIR® Company  
2728 Empire Central  
Dallas, TX 75235  
1-214-353-1600  
**Revision Number:** 2  
**Prior Version Date:** 09-11-2008  
**Chemical Family:** Epoxy Hardener  
**Intended use:** Epoxy Coating Polyamide Co-Reactant  
**Emergency Contact:** ChemTrec Center  
**Emergency Phone:** 1-800-424-9300  
**International:** 703-527-3887

## II. HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** **WARNING!**  
Causes eye burns.  
May cause allergic skin reaction.  
Causes skin burns.  
Flammable liquid and vapor.  
Vapor harmful.  
Harmful if swallowed.  
May be harmful if absorbed through skin.  
Causes nose and throat irritation.

**Routes of Entry:**

- Eye contact
- Inhalation
- Skin contact
- Skin absorption
- Ingestion

**Target Organs Potentially Affected by Exposure:**

- Skin
- Respiratory Tract
- Central nervous system
- Eyes
- Kidneys
- Liver
- Blood

**Medical Conditions Aggravated by Exposure:**

- Skin disorders.
- Respiratory disorders, including but not limited to asthma and bronchitis.
- Eye disorders.
- Liver disease
- Kidney disease
- Skin allergies.
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### Immediate (Acute) Health Effects by Route of Exposure:

**Inhalation Irritation:** Causes nose and throat irritation. Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

**Inhalation Toxicity:** Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. May cause allergic respiratory reaction.

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- Skin Contact:** Can cause severe irritation, defatting, and dermatitis. Irritation effects may last for hours or days but will not likely result in permanent damage.
- Skin Absorption:** May be harmful if absorbed through skin.
- Eye Contact:** Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.
- Ingestion Irritation:** Severely irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
- Ingestion Toxicity:** Harmful if swallowed. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

## Long-Term (Chronic) Health Effects:

- Carcinogenicity:** Possible cancer hazard. Contains ethylbenzene which may cause cancer based on animal data. (Risk of cancer depends on duration and level of exposure.)
- Reproductive and Developmental Toxicity:** Xylene may cause adverse reproductive and/or developmental effects. Pregnant women may be at an increased risk from exposure. Contains butoxy ethanol which has been shown to cause harm to the fetus in laboratory animal studies. The relevance of these findings to humans is uncertain.
- Mutagenicity:** Xylene has been shown to be positive in mutagenicity assays.
- Inhalation:** Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Overexposure may cause lung damage.
- Skin Contact:** Upon prolonged or repeated contact can cause severe irritation, defatting, and dermatitis. May cause lingering effects but not likely to result in permanent damage if the exposure is eliminated. Skin sensitization, characterized by redness, inflammation, itching and/or burning may result from prolonged or repeated contact with this material.
- Skin Absorption:** Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.
- Chronic Effects of Exposure:** Contains ingredients which can cause liver and kidney damage.

## III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #
Calcium Metasilicate (Particles Not Otherwise Classified)	15 - 40	13983-17-0
Polyamidoamine	15 - 40	68410-23-1
Xylene	10 - 30	1330-20-7
Benzyl alcohol	10 - 30	100-51-6
Ethylbenzene	1 - 5	100-41-4
Butoxy Ethanol	1 - 5	111-76-2
2,4,6-Tri(dimethylaminomethyl)phenol	0.5 - 1.5	90-72-2

## IV. FIRST-AID MEASURES

- Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
- Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
- Skin Contact:** Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
- Ingestion:** Severely irritating. Do not induce vomiting. Seek medical attention immediately. Drink 2 glasses

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of water or milk to dilute. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal. Never give anything by mouth to an unconscious person.

## V. FIRE FIGHTING MEASURES

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**Flammability Summary:**

**Flammable liquid and vapor.**

**Extinguishing Media:**

Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and minimize fire damage.

**Fire and/or Explosion Hazards:**

Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. Container may explode in heat of fire. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.

**Fire Fighting Methods and Protection:**

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

**Hazardous Combustion Products:**

Carbon dioxide, Carbon monoxide, Sulfur containing gases, Toxic fumes, Toxic gases, Nitrogen containing gases

**Flash Point (°F/°C):**

79 / 26

**Autoignition Temperature (°F/°C):**

860.0 / 436.0

**Lower Flammable/Explosive Limit, % in air:**

1.0

**Upper Flammable/Explosive Limit, % in air:**

7.0

## VI. ACCIDENTAL RELEASE MEASURES

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**Personal Precautions and Equipment:**

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

**Methods for Clean-up:**

Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material. Gather and store in a sealed container pending disposal.

## VII. HANDLING AND STORAGE

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**Handling Technical Measures and Precautions:**

Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Follow all protective equipment recommendations provided in Section VIII. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. "Empty" containers retain product residue (liquid

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and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse.

**Storage Technical Measures and Conditions:**

Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Measures:** Local exhaust ventilation or other engineering controls may be required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Facilities storing or using this material should be equipped with an eyewash and safety shower.
- Respiratory Protection:** General or local exhaust ventilation is the preferred means of protection. In cases where ventilation is inadequate, respiratory protection may be required to avoid overexposure. Follow respirator manufacturer's directions for respirator use.
- Eye Protection:** Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
- Skin Protection:** Avoid all skin contact by covering as much of the exposed skin area as possible with appropriate clothing to prevent skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Clothing suitable to prevent skin contact. Wear chemical resistant gloves.

### Control Parameters:

Chemical Name	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA
Calcium Metasilicate (Particles Not Otherwise Classified)			50 mppcf (15mg/m <sup>3</sup> ) TWA Total Dust; 15 mppcf (5mg/m <sup>3</sup> ) TWA Respirable fraction
Xylene	100 ppm TWA; 434 mg/m <sup>3</sup> TWA	150 ppm STEL; 651 mg/m <sup>3</sup> STEL	100 ppm TWA; 435 mg/m <sup>3</sup> TWA
Ethylbenzene	100 ppm TWA; 434 mg/m <sup>3</sup> TWA	125 ppm STEL; 543 mg/m <sup>3</sup> STEL	100 ppm TWA; 435 mg/m <sup>3</sup> TWA
Butoxy Ethanol	20 ppm TWA; 97 mg/m <sup>3</sup> TWA		50 ppm TWA; 240 mg/m <sup>3</sup> TWA

## IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	Not Available
<b>Physical State:</b>	Liquid
<b>Boiling Point - Low (°F):</b>	282.0
<b>Boiling Point - High (°F):</b>	342.0
<b>Evaporation Rate:</b>	> 1 Ethyl Ether
<b>Odor:</b>	Ammonia Like, Aromatic
<b>Vapor Density:</b>	3.7 (air = 1)
<b>Vapor Pressure:</b>	77° F 1.065 kPA
<b>VOC (g/l) (Regulatory, Calculated):</b>	234.16
(Actual, Calculated):	234.16
<b>Viscosity:</b>	2000 - 3000 CPS
<b>Solubility in Water:</b>	Minimal; 1-9%
<b>Octanol/Water Partition Coefficient:</b>	Not Available
<b>Volatiles, % by Volume (Calculated):</b>	27.02
<b>Volatiles, % by weight (Calculated):</b>	18.95
<b>Density:</b>	10.22 - 10.42 lbs./Gal.

Physical and Chemical Properties are calculated target or range values for single packaged items and do not represent compliance values for multi-component (mixed) systems.

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## X. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Sparks, open flame, other ignition sources, and elevated temperatures. Contamination.
<b>Materials to Avoid/Chemical Incompatibility:</b>	Oxidizing agents, Acids, Aluminum alloys, Caustics (bases, alkalis)
<b>Polymerization:</b>	Will not occur.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide, Carbon monoxide, Sulfur containing gases, Toxic fumes, Toxic gases, Nitrogen containing gases

## XI. TOXICOLOGICAL INFORMATION

### Component Toxicology Data:

Chemical Name	CAS Number	LD50/LC50
Polyamidoamine	68410-23-1	Oral LD50 > 2000 mg/kg Dermal LD50 <= 2000 mg/kg
Xylene	1330-20-7	Oral LD50 Rat 4300 mg/kg
Benzyl alcohol	100-51-6	Oral LD50 Rat 1230 - 3100 mg/kg Dermal LD50 Rabbit 2000 mg/kg Inhalation LC50 (8h) Rat 1000 ppm
Ethylbenzene	100-41-4	Dermal LD50 Rat 3500 mg/kg
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	Oral LD50 < 2000 mg/kg Dermal LD50 <= 2000 mg/kg

### Carcinogens:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethylbenzene	100-41-4	2B		

## XII. ECOLOGICAL INFORMATION

Toxicity data, if available, are listed below.

**Overview:** Components of this product are hazardous to wildlife and aquatic life.

## XIII. DISPOSAL CONSIDERATIONS

**Disposal Methods:** Refer to other sections of this MSDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

## XIV. TRANSPORTATION INFORMATION

This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.

**DOT Basic Description:** Paint Related Material  
**Hazard Class:** 3  
**UN Number:** UN1263  
**Packing Group:** III  
**Other:** This product qualifies for a limited quantity exception per CFR173.150(b)(3) for inner containers <= 1.3 gallons (5L) and total gross package wt <= 66 lbs (30kg).

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## XV. REGULATORY INFORMATION

### United States Federal Regulations:

**TSCA Status** All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.

<b>SARA EHS Chemicals</b>	<b>CAS #</b>	<b>%</b>
Not applicable		
<b>CERCLA</b>		
Xylene	1330-20-7	10 - 30
Ethyl Benzene	100-41-4	1 - 5
<b>SARA 313</b>		
Xylene (mixed isomers)	1330-20-7	10 - 30
Ethylbenzene	100-41-4	1 - 5
Ethylene glycol mono-n-butyl ether	111-76-2	1 - 5
<b>SARA 311/312</b>		
Health (Acute):	Y	
Health (chronic):	Y	
Fire (Flammable):	Y	
Pressure:	N	
Reactivity:	N	

### U. S. State Regulations:

#### **California Prop 65 Chemicals**

<b>Cancer</b>	<b>CAS #</b>	<b>%</b>
Ethyl Benzene	100-41-4	1 - 5
Benzene	71-43-2	0.001- 0.01
<b>Reproductive</b>		
Toluene	108-88-3	0.1 - 1
Benzene	71-43-2	0.001- 0.01

### Canadian Regulations:

**CEPA DSL:** The components of this product ARE listed on the Canadian Domestic Substances List.

**WHMIS Hazard Class:** B2 D2A E

## XVI. ADDITIONAL INFORMATION

**Prepared By:** Regulatory Department

**Disclaimer:** This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To the best of our knowledge the information contained herein is accurate. Determination of safe handling, application and use of this material is the responsibility of the end user. This information is furnished without warranty, expressed or implied.

**Print Date:** April 19, 2012