

# Material Safety Data Sheet

Revision Date: 01-27-2011

Product Code: 99953

## I. PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** CHEM-O-PON NON-CHROME HARDENER  
**Product Code:** 99953  
**Document ID:** M99953  
**Company:** JONES-BLAIR® Company  
2728 Empire Central  
Dallas, TX 75235  
1-214-353-1600

**Revision Number:** 4  
**Prior Version Date:** 01-26-2011  
**Chemical Family:** Epoxy Hardener  
**Intended use:** Epoxy Coating Hardener  
**Emergency Contact:** ChemTrec Center  
**Emergency Phone:** 1-800-424-9300  
**International:** 703-527-3887

## II. HAZARDS IDENTIFICATION

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

**Routes of Entry:**

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

**Target Organs Potentially Affected by Exposure:**

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

**Medical Conditions Aggravated by Exposure:**

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

**Inhalation Irritation:** Causes nose and throat irritation.

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

**Skin Contact:** Can cause moderate skin irritation.

**Skin Absorption:** May be harmful if absorbed through skin.

**Eye Contact:** Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision

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**Ingestion Toxicity:** impairment (cloudy or blurred vision) is possible.  
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:** Contains 1-Methoxy-2-hydroxypropane which has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain. Xylene may cause adverse reproductive and/or developmental effects. Pregnant women may be at an increased risk from exposure.

**Mutagenicity:** Xylene has been shown to be positive in mutagenicity assays.

**Inhalation:** 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.

**Skin Contact:** 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 minor systemic damage.

## III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #
Calcium Metasilicate (Particles Not Otherwise Classified)	15 - 40	13983-17-0
1-Methoxy-2-hydroxypropane	10 - 30	107-98-2
Polyamidoamine	7 - 13	68410-23-1
Barium Sulfate	7 - 13	7727-43-7
n-Butyl alcohol	5 - 10	71-36-3
Calcium carbonate	3 - 7	471-34-1
Xylene	1 - 5	1330-20-7
Talc	0.5 - 1.5	14807-96-6
Ethylbenzene	0.1 - 1	100-41-4

## 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:** If swallowed, do not induce vomiting. Get medical attention immediately. 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.

## V. FIRE FIGHTING MEASURES

### 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.

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<b>Fire Fighting Methods and Protection:</b>	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. 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. Will not burn, no special instructions available. Use methods appropriate for surrounding materials.
<b>Hazardous Combustion Products:</b>	Sulfur containing gases, Carbon dioxide, Carbon monoxide, Toxic fumes, Hydrocarbons
<b>Flash Point (°F/°C):</b>	72 / 22
<b>Autoignition Temperature (°F/°C):</b>	530.6 / 277.0
<b>Lower Flammable/Explosive Limit, % in air:</b>	1.0
<b>Upper Flammable/Explosive Limit, % in air:</b>	11.2

## VI. ACCIDENTAL RELEASE MEASURES

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<b>Personal Precautions and Equipment:</b>	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
<b>Methods for Clean-up:</b>	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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<b>Handling Technical Measures and Precautions:</b>	Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Ground and bond containers when transferring material. Do not get in eyes, on skin and clothing.
<b>Storage Technical Measures and Conditions:</b>	Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>Engineering Measures:</b>	Local exhaust ventilation or other engineering controls may be required when handling or using this product to avoid overexposure.
<b>Respiratory Protection:</b>	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.
<b>Eye Protection:</b>	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.
<b>Skin Protection:</b>	Where use can result in skin contact, practice good personal hygiene. 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.

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## 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
1-Methoxy-2-hydroxypropane	100 ppm TWA; 369 mg/m <sup>3</sup> TWA	150 ppm STEL; 553 mg/m <sup>3</sup> STEL	
Barium Sulfate	10 mg/m <sup>3</sup> TWA (total); 5mg/m <sup>3</sup> (respirable)		15 mg/m <sup>3</sup> TWA (total); 5 mg/m <sup>3</sup> TWA (respirable)
n-Butyl alcohol	20 ppm TWA; 61 mg/m <sup>3</sup> TWA		100 ppm TWA; 300 mg/m <sup>3</sup> TWA
Calcium carbonate			15 mg/mg <sup>3</sup> TWA total dust; 5mg/m <sup>3</sup> TWA Respirable Dust
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
Talc	20 mppcf TWA		2mg/m <sup>3</sup> (Respirable Dust)
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

## IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	Tan
<b>Physical State:</b>	Liquid
<b>Boiling Point - Low (°F):</b>	242.0
<b>Boiling Point - High (°F):</b>	284.0
<b>Evaporation Rate:</b>	0.83
<b>Odor:</b>	Ammonia Like
<b>Vapor Density:</b>	3.1 (air = 1)
<b>Vapor Pressure:</b>	8.00
<b>VOC (g/l) (Regulatory, Calculated):</b>	435.74
(Actual, Calculated):	435.74
<b>Viscosity:</b>	21.5 - 26.5 Z4
<b>Solubility in Water:</b>	Not Available
<b>Octanol/Water Partition Coefficient:</b>	Not Available
<b>Volatiles, % by Volume (Calculated):</b>	50.09
<b>Volatiles, % by weight (Calculated):</b>	28.51
<b>Density:</b>	12.66 - 12.86 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.

## 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, Alkaline earth metals, Acids
<b>Polymerization:</b>	Will not occur.
<b>Hazardous Decomposition Products:</b>	Sulfur containing gases, Carbon dioxide, Carbon monoxide, Toxic fumes, Hydrocarbons

## XI. TOXICOLOGICAL INFORMATION

### Component Toxicology Data:

Chemical Name	CAS Number	LD50/LC50
Polyamidoamine	68410-23-1	Oral LD50 > 2000 mg/kg

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		Dermal LD50 <= 2000 mg/kg
Xylene	1330-20-7	Oral LD50 Rat 4300 mg/kg
Ethylbenzene	100-41-4	Dermal LD50 Rat 3500 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.

## 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:** II  
**Other:** This product qualifies for a limited quantity exception per CFR173.150(b)(2) and 172.102 Special Provision 149 for inner containers <= 1.3 gallons (5L) and total gross package wt <= 66 lbs (30kg).

## 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.

SARA EHS Chemicals	CAS #	%
Not applicable		
<b>CERCLA</b>		
n-Butyl alcohol	71-36-3	5 - 10
Xylene	1330-20-7	1 - 5
Ethyl Benzene	100-41-4	0.1 - 1
<b>SARA 313</b>		
n-Butyl alcohol	71-36-3	5 - 10
Xylene (mixed isomers)	1330-20-7	1 - 5
Ethylbenzene	100-41-4	0.1 - 1

**SARA 311/312**  
Health (Acute): Y

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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	0.1 - 1
Benzene	71-43-2	< 10 ppm
<b>Reproductive</b>		
Toluene	108-88-3	0.01 - 0.1
Benzene	71-43-2	< 10 ppm

## Canadian Regulations:

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

**WHMIS Hazard Class:** B2 D2A

## XVI. ADDITIONAL INFORMATION

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**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.  
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