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I. PRODUCT AND COMPANY IDENTIFICATION

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: 5

Intended use: Epoxy Coating Hardener Emergency Contact: ChemTrec Center 1-800-424-9300 703-527-3887

II. HAZARDS IDENTIFICATION

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 absorptionSkin contactEye contact

Ingestion

Target Organs Potentially Affected by Exposure:

Skin

Respiratory Tract

Eyes

Central nervous system

KidneysLiverBlood

Medical Conditions
Aggravated by Exposure:

Eve disorders.

Respiratory disorders, including but not limited to asthma and bronchitis.

Skin disorders.Liver diseaseKidney disease

•

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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impairment (cloudy or blurred vision) is possible.

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 andContains 1-Methoxy-2-hydroxypropane which has been shown to cause harm to the **Developmental Toxicity:**fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels

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 | 15 - 40 | 13983-17-0 |
| Classified) | | |
| 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.

Notes to Doctor: No additional first aid information available

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

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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. Will not burn, no special instructions available. Use methods appropriate for surrounding

materials.

Hazardous Combustion Products: Sulfur containing gases, Carbon dioxide, Carbon monoxide, Toxic fumes,

Hydrocarbons

Flash Point (°F/°C): 72 / 22 Autoignition Temperature (°F/°C): 530.6 / 277.0

Lower Flammable/Explosive Limit, % in air: 1.0 Upper Flammable/Explosive Limit, % in air: 11.2

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: 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.

Methods for Clean-up: consider the expertise of employees in the area responding to the spill. 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

Handling Technical Measures and Precautions: 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.

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.

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: Where use can result in skin contact, practice good personal hygiene. Wash hands and

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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 Calcium Metasilicate (Particles Not Otherwise Classified) | ACGIH TLV-TWA | ACGIH STEL | OSHA PEL-TWA 50 mppcf (15mg/m³) TWA Total Dust; 15 mppcf (5mg/m³) TWA Respirable fraction |
| 1-Methoxy-2-hydroxypropane | 100 ppm TWA; 369 mg/m3 TWA | 150 ppm STEL; 553 mg/m3 STEL | |
| Barium Sulfate | 10 mg/m³ TWA (total); 5mg/m³ (respirable) | | 15 mg/m³ TWA (total); 5 mg/m³ TWA (respirable) |
| n-Butyl alcohol | 20 ppm TWA; 61 mg/m3 TWA | | 100 ppm TWA; 300 mg/m3 TWA |
| Calcium carbonate | | | 15 mg/mg³ TWA total dust; 5mg/m³ TWA Respirable Dust |
| Xylene | 100 ppm TWA; 434 mg/m³ TWA | 150 ppm STEL; 651 mg/m3 STEL | 100 ppm TWA; 435 mg/m ³ TWA |
| Talc | 20 mppcf TWA | | 2mg/m³ (Respirable Dust) |
| Ethylbenzene | 100 ppm TWA; 434 mg/m³ TWA | 125 ppm STEL; 543 mg/m³ STEL | 100 ppm TWA; 435 mg/m ³ TWA |

IX. PHYSICAL AND CHEMICAL PROPERTIES

Color: Tan
Physical State: Liquid
Boiling Point - Low (°F): 242.0
Boiling Point - High (°F): 284.0
Evaporation Rate: 1

 Odor:
 Amine-Like.

 Vapor Density:
 3.10 (air = 1)

 Vapor Pressure:
 8.00

 VOC (g/l) (Regulatory, Calculated):
 435.74

(Actual, Calculated): 435.74

Viscosity: 22 - 27 Z4

Solubility in Water: Not Available

Octanol/Water Partition Coefficient: Not Available

Volatiles, % by Volume (Calculated): 50.09 Volatiles, % by weight (Calculated): 28.51

Density: 12.56 - 12.96 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

Stability: Stable under normal conditions.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated

temperatures. Contamination.

Materials to Avoid/Chemical Incompatibility:

Polymerization:

Oxidizing agents, Alkaline earth metals, Acids

Will not occur.

Hazardous Decomposition Products: Sulfur containing gases, Carbon dioxide, Carbon monoxide, Toxic

fumes, Hydrocarbons

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data:

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| | | i ioduci code. 99900 |
|----------------------------|------------|------------------------------------|
| Chemical Name | CAS Number | LD50/LC50 |
| 1-Methoxy-2-hydroxypropane | 107-98-2 | Oral LD50 Rat > 5900 mg/kg |
| | | Dermal LD50 Rabbit 13,000 mg/kg |
| | | Inhalation LC50 Rat 1500 ppm |
| Polyamidoamine | 68410-23-1 | Oral LD50 > 2000 mg/kg |
| | | Dermal LD50 <= 2000 mg/kg |
| B | 74.00.0 | 0. 11 050 0. 4700 |
| n-Butyl alcohol | 71-36-3 | Oral LD50 Rat 790 mg/kg |
| | | Dermal LD50 Rat 3400 mg/kg |
| | | Inhalation LC50 (4h) Rat 8000 mg/L |
| Xylene | 1330-20-7 | Oral LD50 Rat 4300 mg/kg |
| | | Dermal LD50 Rabbit 4350 mg/kg |
| | | Inhalation LC50 (4h) Rat 5334 mg/L |
| Ethylbenzene | 100-41-4 | Oral LD50 Rat 3500 mg/kg |
| | | Dermal LD50 Rabbit 5510 mg/kg |
| | | Inhalation LC50 (4h) Rat 17 mg/L |

Carcinogens:

 Chemical Name
 CAS Number
 IARC
 NTP
 OSHA

 Talc
 14807-96-6
 2B

 Ethylbenzene
 100-41-4
 2B

XII. ECOLOGICAL INFORMATION

Toxicity data, if available, are listed below.

Overview:

No data available

Mobility: No data available

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).

Marine Pollutant: No

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.

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| SARA EHS Chemicals Not applicable | | CAS# | <u>%</u> | Product Code: 99953 |
|---|------------------|---|--|---------------------|
| CERCLA n-Butyl alcohol Xylene (mixed isomers) Ethyl Benzene | | 71-36-3 1330-20-7 100-41-4 | 5 - 10 1 - 5 0.1 - 1 | |
| SARA 313 n-Butyl alcohol Xylene (mixed isomers) Ethylbenzene | | 71-36-3 1330-20-7 100-41-4 | 5 - 10 1 - 5 0.1 - 1 | |
| SARA 311/312 Health (Acute): Health (chronic): Fire (Flammable): Pressure: Reactivity: | Y Y Y N | | | |
| U. S. State Regulations: California Prop 65 Chem Cancer Ethyl Benzene Crystalline Silica Benzene Reproductive Toluene | icals | <u>CAS #</u> 100-41-4 14808-60-7 71-43-2 108-88-3 | % 0.1 - 1 0.01 - 0.1 < 10 ppm 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

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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