

Material Safety Data Sheet

Revision Date: 05-07-2012
Product Code: 39906

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CHEM-O-Z QD ZINC RICH PRIMER
Product Code: 39906
Document ID: M39906
Company: JONES-BLAIR® Company
2728 Empire Central
Dallas, TX 75235
1-214-353-1600
Revision Number: 2
Prior Version Date: 01-29-2009
Chemical Family: Epoxy Coating
Intended use: Metallic Pigmented Coating
Emergency Contact: ChemTrec Center
Emergency Phone: 1-800-424-9300
International: 703-527-3887

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: **WARNING!**
Flammable liquid and vapor.
Causes skin irritation.
Causes eye irritation.
Vapor harmful.

Routes of Entry:

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

Target Organs Potentially Affected by Exposure:

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

Medical Conditions Aggravated by Exposure:

- Lung disease
- Respiratory disorders, including but not limited to asthma and bronchitis.
- Skin disorders.
- Eye disorders.
- Liver disease
- Kidney disease
-

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: May cause respiratory tract irritation. Causes lung irritation. Causes nose and throat irritation.

Inhalation Toxicity: Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea.

Skin Contact: Can cause moderate skin irritation. May cause allergic skin reaction.

Skin Absorption: May be harmful if absorbed through skin.

Eye Contact: Causes eye irritation.

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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 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.

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

Inhalation: Dust and fumes can cause nausea, gastric pain and irritation to the upper respiratory tract. Prolonged and continuous exposure within hours of ZnO formation (from burning zinc) may cause metal fume fever. Symptoms are chills, metallic taste, severe headache. Symptoms often persist for 24 hours.

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: Prolonged contact may cause an allergic skin reaction.

Skin Absorption: Upon prolonged or repeated exposure, harmful if absorbed through the skin.

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #
Zinc	50 - 70	7440-66-6
Polymer of Epoxy Resin and bisphenol A	3 - 7	25036-25-3
Zinc oxide	1 - 5	1314-13-2
Xylene	1 - 5	1330-20-7
Bisphenol-A-diglycidylether	1 - 5	25068-38-6
1-Methoxy-2-hydroxypropane	1 - 5	107-98-2
Methyl Isobutyl Ketone	1 - 5	108-10-1
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.

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. Thoroughly wash or discard clothing and shoes before reuse.

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: Pre-existing disorders of the following organs may be aggravated by exposure to this material: skin, lung (for example, asthma-like symptoms)

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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Fire Fighting Methods and Protection: 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.

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

Flash Point (°F/°C): 51 / 11

Autoignition Temperature (°F/°C): 860.0 / 460.0

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: 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. 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. May form flammable dust-air mixtures. Guard against dust accumulation of this material. 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. Explosion proof exhaust ventilation should be used.

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 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
Zinc oxide	2 mg/m ³ TWA (respirable dust)	10 mg/m ³ (respirable dust)	5 mg/m ³ TWA (respirable dust); 15 mg/m ³ TWA (total dust)
Xylene	100 ppm TWA; 434 mg/m ³ TWA	150 ppm STEL; 651 mg/m ³ STEL	100 ppm TWA; 435 mg/m ³ TWA
1-Methoxy-2-hydroxypropane	100 ppm TWA; 369 mg/m ³ TWA	150 ppm STEL; 553 mg/m ³ STEL	
Methyl Isobutyl Ketone	50 ppm TWA; 205 mg/m ³ TWA	75 ppm STEL; 307 mg/m ³ STEL	100 ppm TWA; 410 mg/m ³ TWA
Ethylbenzene	100 ppm TWA; 434 mg/m ³ TWA	125 ppm STEL; 543 mg/m ³ STEL	100 ppm TWA; 435 mg/m ³ TWA

IX. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Brown
Physical State:	Liquid
Boiling Point - Low (°F):	282.0
Boiling Point - High (°F):	286.0
Odor:	Odorless
Vapor Density:	3.7 (air = 1)
VOC (g/l) (Regulatory, Calculated):	330.67
(Actual, Calculated):	330.66
Viscosity:	2900 - 3400 CPS
Solubility in Water:	Minimal; 1-9%
Octanol/Water Partition Coefficient:	Not Available
Volatiles, % by Volume (Calculated):	38.46
Volatiles, % by weight (Calculated):	11.5
Density:	23.01 - 25.01 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. Contact with water. Elevated temperatures.
Materials to Avoid/Chemical Incompatibility:	Oxidizing agents, Acids, Caustics (bases, alkalis), Water, Moisture
Polymerization:	Will not occur.
Hazardous Decomposition Products:	Hydrogen, Carbon dioxide, Carbon monoxide, Sulfur containing gases, Toxic gases

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data:

Chemical Name	CAS Number	LD50/LC50
Polymer of Epoxy Resin and bisphenol A	25036-25-3	Oral LD50 > 2000 mg/kg Dermal LD50 Rat > 2000 mg/kg
Zinc oxide	1314-13-2	Oral LD50 Mouse 7950 mg/kg
Xylene	1330-20-7	Inhalation LC50 Mouse 2500 mg/m ³ Oral LD50 Rat 4300 mg/kg

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Bisphenol-A-diglycidylether	25068-38-6	Oral LD50 > 2000 mg/kg Dermal LD50 > 2000 mg/kg
4-Methyl-2-pentanone	108-10-1	Oral LD50 Rat 1600 - 3200 mg/kg Dermal LD50 Rabbit > 10 ml/kg Inhalation LC50 (4h) 2000 - 4000 ppm
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
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 #	%
Formaldehyde	50-00-0	0.01 - 0.1
Epichlorohydrin	106-89-8	< 0.1 ppm

CERCLA

Zinc	7440-66-6	50 - 70
Xylene	1330-20-7	1 - 5
Methyl Isobutyl Ketone	108-10-1	1 - 5
Ethyl Benzene	100-41-4	0.1 - 1

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Zinc	7440-66-6	50 - 70
Zinc Oxide	1314-13-2	1 - 5
Xylene (mixed isomers)	1330-20-7	1 - 5
Methyl Isobutyl Ketone	108-10-1	1 - 5
Ethylbenzene	100-41-4	0.1 - 1

SARA 311/312

Health (Acute):	Y
Health (chronic):	Y
Fire (Flammable):	Y
Pressure:	N
Reactivity:	N

U. S. State Regulations:

California Prop 65 Chemicals

Cancer

	CAS #	%
Ethyl Benzene	100-41-4	0.1 - 1
Formaldehyde	50-00-0	0.01 - 0.1
Lead	7439-92-1	0.001- 0.01
Crystalline Silica	14808-60-7	0.001- 0.01
Titanium dioxide	13463-67-7	0.001- 0.01
Benzene	71-43-2	< 10 ppm
Phenyl glycidyl ether	122-60-1	< 1 ppm
1-Chloro-2,3-epoxypropane	106-89-8	< 0.1 ppm

Reproductive

Toluene	108-88-3	0.01 - 0.1
Lead	7439-92-1	0.001- 0.01
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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