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#### I. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	CHEM-O-Z QD ZINC RICH CATALYST		
Product Code:	99976		
Document ID:	M99976		
Company:	JONES-BLAIR® Company		
	2728 Empire Central		
	Dallas, TX 75235		
	1-214-353-1600		
Revision Number:	3		
Prior Version Date:	06-01-2010		
Chemical Family:	Epoxy Hardener		
Intended use:	Epoxy Coating Hardener		
Emergency Contact:	ChemTrec Center		
Emergency Phone	1-800-424-9300		
International:	703-527-3887		
	100 021 0001		
II. HAZARDS IDENTIFICATIO	<u>N</u>		
EMERGENCY OVERVIEW:	WARNING!		
	Causes eye burns.		
	Causes skin burns.		
	May cause allergic skin reaction.		
	Flammable liquid and vapor.		
	Vapor harmful.		
	Harmful if swallowed.		
Routes of Entry:			
	Skin absorption		
	Skin absorption		
	• Eye contact		
Target Organs Potentially	Central nervous system		
Affected by Exposure:	• Skin		
	Respiratory Tract		
	• Eves		
	Kidnevs		
	• liver		
Medical Conditions	Skin disorders.		
Aggravated by Exposure:	<ul> <li>Respiratory disorders, including but not limited to asthma and bronchitis.</li> </ul>		
	Eve disorders		
	<ul> <li>Liver disease</li> </ul>		
	Kidney disease		
	• Skill allergies.		
	•		
	facts has Devite of Francesson		
immediate (Acute) Health Eff	ects by Route of Exposure:		

Inhalation Irritation:Causes nose and throat irritation. Causes lung irritation. Can cause severe respiratory<br/>irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.Inhalation Toxicity:Vapor harmful. May affect the brain or nervous system causing dizziness, headache or<br/>nausea. May cause allergic respiratory reaction.Skin Contact:Corrosive to skin tissue. Can cause chemical burns. Sensitizer. Avoid exposure. If<br/>sensitized, repeated exposures will result in irritation, reddening, and rashes even for very<br/>low exposures.

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	May cause allergic skin reaction.
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. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.
Long-Term (Chronic)	Health Effects:
Reproductive and	Xylene may cause adverse reproductive and/or developmental effects. Pregnant
<b>Developmental Toxic</b>	ity: women may be at an increased risk from exposure.
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 pervous system damage. Intentional misuse by

	solvents with permanent brain and nervous system damage. Intentional misuse by
	deliberately concentrating and inhaling the contents may be harmful or fatal.
	Prolonged and continuous exposure to an excessive concentration has been shown to affect
	respiratory function. This effect may be severe.
	Overexposure may cause lung damage.
Skin Contact:	Upon prolonged or repeated contact can cause severe irritation, defatting, and dermatitis.
	May cause lingering affects but not likely to result in permanent damage if the exposure is
	eliminated. Prolonged contact may cause an allergic skin reaction.
Skin Absorption:	Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause
-	severe irritation and systemic damage.

### **Chronic Effects of** Contains ingredients which can cause liver and kidney damage.

### Exposure:

### **III. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	%	CAS #
Curing Agent	15 - 40	Not Available
n-Butyl alcohol	10 - 30	71-36-3
Xylene	10 - 30	1330-20-7
3-amino methyl-3,5,5 Trimethyl Amine	7 - 13	2855-13-2
Benzyl alcohol	5 - 10	100-51-6
Bisphenol-A-diglycidylether	1 - 5	25068-38-6
2,4,6-Tri(dimethylaminomethyl)phenol	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 and have a trained individual administer oxygen. 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. Thoroughly wash or discard clothing and shoes before reuse.
Ingestion:	Corrosive. Do not induce vomiting! Drink one glass of water followed by milk if available. Seek medical attention immediately and give the medical care provider with this MSDS. 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

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 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			
<u>Flammability Summary:</u> Extinguishing Media:	<ul> <li>Flammable liquid and vapor.</li> <li>Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing if swept across the base of the fire. Water can also be used to absorb heat and minimize fire damage.</li> <li>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.</li> <li>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. Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Fight fire from a safe distance composition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment.</li> </ul>		
Fire and/or Explosion Hazards:			
Fire Fighting Methods and Protection: Hazardous Combustion Products:			
Flash Point (°F/°C): Autoignition Temperature (°F/°C): Lower Flammable/Explosive Limit, % in a Upper Flammable/Explosive Limit, % in a VI. ACCIDENTAL RELEASE MEASURES	81 / 27 669.9 / 354.4 ir: 1.1 ir: 11.2		
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		
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 Preca	<b>Itions:</b> Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment. Follow all protective equipment recommendations provided in Section VIII. As with all chemicals, good industrial hygiene practices		

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	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
	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 evenash 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
n-Butyl alcohol	20 ppm TWA; 61 mg/m3 TWA		100 ppm TWA; 300 mg/m3 TWA
Xylene	100 ppm TWA; 434 mg/m³ TWA	150 ppm STEL; 651 mg/m3 STEL	100 ppm TWA; 435 mg/m³ TWA

#### **IX. PHYSICAL AND CHEMICAL PROPERTIES**

Color:	Colorless		
Physical State:	Liquid		
Boiling Point - Low (°F):	242.0		
Boiling Point - High (°F):	476.6		
Evaporation Rate:	1 > 1 Ethyl Ether		
Odor:	Ammonia Like, Aromatic		
Vapor Density:	2.60 (air = 1)		
Vapor Pressure:	4.40 (mm Hg @ 68° F / 20º C)		
VOC (g/l) (Regulatory, Calculated):	356.15		
(Actual, Calculated):	356.15		
Viscosity:	15 - 20 Z3		
Solubility in Water:	Low; 10-39%		
Octanol/Water Partition Coefficient:	Not Available		
Volatiles, % by Volume (Calculated):	42.94		
Volatiles, % by weight (Calculated):	37.56		
Density:	7.81 - 8.01 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: Conditions to Avoid: Stable under normal conditions. Sparks, open flame, other ignition sources, and elevated

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	temperatures. Contamination.
Materials to Avoid/Chemical Incompatibility:	Alkaline earth metals, Oxidizing agents, Acids, Isocyanates,
	Anhydrides, Aluminum alloys
Polymerization:	Will not occur.
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide, Toxic fumes, Hydrocarbons, Sulfur containing gases, Nitrogen containing gases, Ammonia

### **XI. TOXICOLOGICAL INFORMATION**

Packing Group:

Other:

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Component Toxicology Data	a:					
Chemical Name	CAS Number 71-36-3	LD50/LC50 Oral LD50 Rat 790 mg/kg				
n Butyr aloonol	11000	Dermal LD50 Rat 3	3400 mg/kg			
Yulono	1220 20 7	Inhalation LC50 (4)	n) Rat 8000 mg/L			
Aylene	1330-20-7	Dermal LD50 Rat	orai 200 Rat 4300 mg/kg Dermal LD50 Rabbit 4350 mɑ/kɑ			
		Inhalation LC50 (4)	n) Rat 5334 mg/L			
3-amino methyi-3,5,5 Trimetr Amine	iyi 2855-13-2	Dermal LD50 Rat 103	0 mg/kg > 2000 ma/ka			
		Inhalation LC50 (4)	n) Rat > 5 mg/L			
Benzyl alcohol	100-51-6	Oral LD50 Rat 123	0 - 3100 mg/kg			
		Inhalation LC50 (8)	n) Rat 1000 ppm			
Bisphenol-A-diglycidylether	25068-38-6	Oral LD50 > 2000 mg/kg Dermal LD50 > 2000 mg/kg				
2,4,6-	90-72-2	Oral LD50 1200 mg	g/kg			
Tri(dimethylaminomethyl)phe	nol	Dermal LD50 1280 mg/kg				
0						
Carcinogens: Chemical Name	CAS Number	IARC	NTP	OSHA		
Not applicable						
XII. ECOLOGICAL INFORMA						
Toxicity data, if available, ar	e listed below.					
Overview:	No data available Cor	mponents of this produ	uct are hazardous to	wildlife and aquatic		
	life.					
Mobility:	No data available					
	TIONS					
Disposal Methods:	Refer to c	ther sections of this M	ISDS to determine t	he toxicity and		
	physical cl	haracteristics of the m	aterial to determine	the proper waste		
	identificatio	on and disposal in cor	npliance with applic	able regulations.		
XIV. TRANSPORTATION INF	ORMATION					
This section provides basic sh	ipping classification infor	mation and does not o	contain all regulatory	rtransportation		
details. Refer to all applicable requirements and restrictions.	regulations for domestic,	international, air, ves	sel and ground trans	sportation		
DOT Basic Description:	Paint Related Material					
Hazard Class:	3 UN1262					
	0111203					

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This product qualifies for a limited quantity exception per CFR173.150(b)(3) for inner

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containers <= 1.3 gallons (5L) and total gross package wt <= 66 lbs (30kg).

Marine Pollutant:	No			
XV. REGULATORY INFO	ORMATION			
United States Federal R TSCA Status All con invent	egulations: mponents of this pro tory notification requ	oduct are either lis lirements.	ted on the TSCA Inven	tory; or, are not subject to the
SARA EHS Chemicals Epichlorohydrin		<u>CAS #</u> 106-89-8	<mark>%</mark> < 0.1 ppm	
<b>CERCLA</b> n-Butyl alcohol Xylene (mixed isomers)		71-36-3 1330-20-7	10 - 30 10 - 30	
<b>SARA 313</b> n-Butyl alcohol Xylene (mixed isomers)		71-36-3 1330-20-7	10 - 30 10 - 30	
SARA 311/312 Health (Acute): Health (chronic): Fire (Flammable): Pressure: Reactivity:	Y Y Y N N			
U. S. State Regulations: California Prop 65 Chen Cancer Phenyl glycidyl ether 1-Chloro-2,3-epoxypropa Reproductive Not applicable	nicals	<u>CAS #</u> 122-60-1 106-89-8	<u>%</u> < 1 ppm < 0.1 ppm	
Canadian Regulations: CEPA DSL: WHMIS Hazard Class:	The compone List. B2 D2B E	nts of this product	ARE listed on the Can	adian Domestic Substances
XVI. ADDITIONAL INFO	RMATION			
Prepared By: Disclaimer:	Regulatory Depart This MSDS has be Standard (29 CFR the best of our kno safe handling, app information is furnis	ment en prepared in ac 1910.1200) and C wledge the inform lication and use of shed without warra	cordance with the OSH canada's Controlled Pro ation contained herein this material is the res anty, expressed or impl	A Hazard Communication oduct Regulations (CPR). To is accurate. Determination of ponsibility of the end user. This lied.

Print Date:

July 15, 2013