

## M A T E R I A L   S A F E T Y   D A T A   S H E E T

## I. IDENTIFICATION

MANUFACTURED BY: Diamond Vogel Paint  
1020 Albany Place SE  
Orange City, Ia 51041

REVISED: 11/12/2002  
PRINTED: 11/19/2002

24 Hour Emergency Telephone  
CHEMTREC 1-800-424-9300

General Information:  
Mon-Fri 8 AM - 5 PM  
712-737-4993

TRADE NAME: Mult-E-Poxy 230AL Cure (Part B)

MFG. PRODUCT NUMBER: LM-0230

PROPER SHIPPING NAME: PAINT

## II. HAZARDOUS INGREDIENTS

Trade Secret		WT %:	20-50
ACGIH TLV:	ACGIH STEL:		
OSHA PEL:	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE:	LEL%:		
CAS #014808-60-7	Crystalline Silica	WT %:	5-20      Footnote: (2)
ACGIH TLV:	ACGIH STEL:		
OSHA PEL:	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE:	LEL%:		
CAS #9046-10-0	Polyoxypropylenediamine	WT %:	5-20
ACGIH TLV:	ACGIH STEL:		
OSHA PEL:	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE: 1 mm Hg 212F	LEL%:		
CAS #98-00-0	Furfuryl Alcohol	WT %:	5-20
ACGIH TLV: 10 ppm, skin TWA	ACGIH STEL: 15 ppm skin		
OSHA PEL: 50 ppm, skin TWA	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE: 0.4@ 20C	LEL%: 1.8		
Trade Secret		WT %:	5-20      Footnote: (1)
ACGIH TLV: N.E.	ACGIH STEL: N.E.		
OSHA PEL: N.E.	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE: <.1mmHg@25C	LEL%: N.E.		
CAS #1330-20-7	Xylene	WT %:	5-20      Footnote: (1)
ACGIH TLV: 100 ppm TWA	ACGIH STEL: 150 ppm		
OSHA PEL: 100 ppm TWA	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE: 6.6mmHg@20C	LEL%: 1.0%		
CAS #100-41-4	Ethyl Benzene	WT %:	1-5
ACGIH TLV: 100 ppm TWA	ACGIH STEL: 125 ppm		
OSHA PEL: 100 ppm TWA	OSHA CEILING:		OSHA PEAK:
VAPOR PRESSURE:	LEL%:		

## WARNING MESSAGES:

- (1) 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. Chronic exposure may cause damage to the central nervous system, respiratory system, lung, eye, skin, liver, gastrointestinal tract, spleen, kidneys, and blood.

- (2) IARC Monograph Volume 68, 1997 concludes that there is sufficient evidence that inhaled crystalline silica causes cancer in humans. IARC group 1. The NTP, in the Sixth Annual Report on Carcinogens, 1991, has added crystalline silica to its list of substances that are anticipated to be carcinogens.
- (3) See Section IX for reportable Hazardous Air Pollutants.

### III. PHYSICAL DATA

BOILING RANGE: 276-500° F

EVAPORATION RATE: \* slower than ether \*

PERCENT VOLATILE BY VOLUME: 22.19%

WEIGHT PER GALLON: 10.25 LBS

VAPOR DENSITY: \* heavier than air \*

ACTUAL VOC (lb/gal): 1.58

EPA VOC (lb/gal): 1.58

EPA VOC (g/L): 189.35

### IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 27° C 81° F

LEL: Refer to Section II

FLAMMABILITY CLASSIFICATION: CLASS 1C

DOT CLASSIFICATION (HAZARD CLASS): \*Flammable Liquid - CORROSIVE

EXTINGUISHING MEDIA: Use water spray, dry chemical, foam, or Carbon Dioxide. Use water spray to cool fire-exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARD: Keep away from heat, sparks, and flame.  
May generate toxic or irritating combustion products.  
May generate carbon monoxide or toxic nitrogen gases.

SPECIAL FIRE FIGHTING PROCEDURE: Burning will produce toxic fumes. Wear self-contained breathing apparatus and full turn-out gear to fight fires.

### V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section II.

EFFECTS OF OVEREXPOSURE:

CORROSIVE

ACUTE-

Eye Contact: Severe irritant, chemical burn possible, possible skin damage. Vapors may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Skin Contact: Severe irritant, corrosion to tissue, possible skin burns.

Inhalation: Moderate to severe irritant. Minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possible death. High vapor concentrations are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Ingestion: Severe irritation, possible gastrointestinal tract. May cause nausea unless treated promptly.

CHRONIC- Repeated and/or prolonged exposure to low concentrations of vapor may cause: sore throat, eye irritation, nausea, headache, adverse skin effects (such as defatting, rash, irritation or corrosion), adverse eye effects (such as conjunctivitis or corneal damage). Repeated and/or prolonged contact with the skin may cause allergic reaction/sensitization or burns. Xylene contains ethylbenzene which has been classified as a possible carcinogen to humans, Class 2B, by the International Agency for Research on Cancer (IARC), based on sufficient evidence in laboratory animals but inadequate evidence for cancer in humans. Prolonged or repeated overexposure to ethylbenzene may cause the following: kidney effects, liver effects, lung effects, thyroid effects, testicular effects, pituitary effects. This product contains crystalline silica which may cause delayed respiratory disease (silicosis) if inhaled over a prolonged period of time. Avoid breathing dust. Use a NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Asthma, Chronic respiratory disease (e.g. Bronchitis, Emphysema)  
Eye disease, Skin disorders and Allergies.

PRIMARY ROUTE(S) OF ENTRY: Ingestion, Skin Absorption, Inhalation

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Restore breathing. Treat symptomatically. Consult a physician.

EYES: Flush immediately with large amounts of water for at least 15 minutes. Talk to a physician for medical treatment.

SKIN: Wipe off with towel. Wash with soap and water. Remove contaminated clothing.

INGESTION: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by a medical personnel. Never give anything by mouth to an unconscious person.

## VI. REACTIVITY DATA

STABILITY: \*stable\*

HAZARDOUS POLYMERIZATION: \*will not occur\*

INCOMPATIBILITY: Avoid bringing into contact with oxidizing agents, acids bases or epoxy hardeners under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide, Carbon Dioxide and Nitrogen Oxides in a fire. Nitrogen Oxide can react with water vapors to form corrosive nitric acid (TLV= 2 ppm). Combustion of product under oxygen-starved conditions can be expected to produce numerous toxic products including: nitiles, amides. Irritating and toxic fumes at elevated temperatures.

CONDITIONS TO AVOID: Avoid acid contamination and skin contact. Keep containers tightly closed. No smoking or eating in handling area.

## VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Avoid breathing vapors. Ventilate area. Use non-sparking tools. Remove with inert absorbant.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations.

## VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: In confined areas of poor ventilation, use chemical cartridge respirator or self-contained breathing apparatus.

VENTILATION: Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV and LEL of most hazardous ingredient in Section II, below acceptable limit.

PROTECTIVE GLOVES:

Wear suitable gloves (S37). Nitrile rubber gloves. In emergency situations, wear impermeable gloves with cuffs to prevent spread of material to area above the wrists.

EYE PROTECTION:

Splash proof eye goggles. In emergency situations, use eye goggles with a full face shield.

OTHER PROTECTIVE EQUIPMENT: Protective clothing such as coveralls or lab coats must be worn.

HYGIENIC PRACTICES: See Section V

### IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORING: Do not store near heat, sparks, flame, strong oxidizing agents or strong acids. This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Avoid contact with vapors or fumes.

OTHER PRECAUTIONS: Eye wash station and safety shower should be available

LIST OF HAZARDOUS AIR POLLUTANTS SUBJECT TO THE PROVISIONS OF THE CLEAN AIR ACT, TITLE I SECTION 112 'National Emission Standards for Hazardous Air Pollutants':

Ingredient	CAS #	Wt% of HAPS in product	Pounds HAPS/ Gal product
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Xylene	1330-20-7	12.1 %	1.2
Ethyl Benzene	100-41-4	2.6 %	0.3

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