

CRAWFORD LABORATORIES, INC. -- MIL-C-22750E EPOXY CLEAR M0-086, PART A --  
8010-01-313-8703

===== Product Identification =====

Product ID:MIL-C-22750E EPOXY CLEAR M0-086, PART A

MSDS Date:03/03/1992

FSC:8010

NIIN:01-313-8703

Kit Part:Y

MSDS Number: BPGLD

=== Responsible Party ===

Company Name:CRAWFORD LABORATORIES, INC.

Address:4165 SOUTH EMERALD AVENUE

City:CHICAGO

State:IL

ZIP:60609

Country:US

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Info Phone Num:312-376-7132

Emergency Phone Num:800-424-9300 CHEMTREC

Preparer's Name:DAVID SCHMETTERER

CAGE:DO165

=== Contractor Identification ===

Company Name:CRAWFORD LABORATORIES, INC

Address:4165 SOUTH EMERALD AVENUE

City:CHICAGO

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Company Name:CRAWFORD LABORATORIES, INC

Address:4165 SOUTH EMERALD AVENUE

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Phone:312-376-7132

CAGE:5V430

===== Composition/Information on Ingredients ==

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Ingred Name:METHYL ETHYL KETONE (SARA III) (VAPOR PRESSURE 71.2 MM HG)  
CAS:78-93-3  
RTECS #:EL6475000  
Fraction by Wt: 20%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM  
ACGIH TLV:200 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:BISPHENOL A-EPICHLOROHYDRIN RESIN  
CAS:25085-99-8  
Fraction by Wt: 30%  
Other REC Limits:NONE SPECIFIED

Ingred Name:TOLUENE (SARA III) (CONTAINS A TRACE OF BENZENE) (VAPOR PRESSURE 38 MM HG)  
CAS:108-88-3  
RTECS #:XS5250000  
Fraction by Wt: 15%

Other REC Limits:NONE SPECIFIED  
OSHA PEL:200 PPM/150 STEL  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:VOC: 331 GPL  
RTECS #:9999999VO  
Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:OVEREXPOSURE: ACUTE TOXICITY RESULTING IN HEADACHE, DIZZINESS, NAUSEA AND LOSS OF CONSCIOUSNESS. SEVERE EYE IRRITATION POSSIBLY RESULTING IN PERMANENT DAMAGE. IRRITATED MUCOUS MEMBRANES. VOMITING DUE TO INGESTION. DEFATTING & DRYING OF SKIN. SENSITIZATION AFTER REPEATED CONTACT. UNLIKELY THAT NORMAL WORK OPERATIONS \*

Explanation of Carcinogenicity:YOU SHOULD BE AWARE THAT THIS RESIN HAS BEEN REPORTED TO CAUSE CANCER IN LABORATORY ANIMALS.

Effects of Overexposure:\* WITH THIS RESIN COULD PRODUCE ATMOSPHERIC CONCENTRATIONS APPROACHING OSHA LIMIT.

===== First Aid Measures =====

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First Aid:EYE: FLUSH W/LUKEWARM LOW PRESSURE WATER 15 MIN, LIFT EYELIDS. GET MED AID. INHAL: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING DIFFICULT. GIVE ARTIF RESP IF NOT BREATHING. GET MED AID. KEEP WARM & COMFORTABLE. NEVER GIVE UNCONSCIOUS PERSON LIQS. INGEST: CALL DR IMMED. ONLY INDUCE VOMIT ON DR'S INSTRUCTS. IF VOMIT OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQ INTO LUNGS. NEVER GIVE \*\*

===== Fire Fighting Measures =====

Flash Point Method:SCC  
Flash Point:22.0F,-5.6C  
Lower Limits:1.2  
Extinguishing Media:FOAM, CO2, OR DRY CHEMICAL.  
Fire Fighting Procedures:USE WATER TO KEEP EXPOSED CNTNRS COOL, & TO KEEP FLAMMABLE STRUCTURE WET. DON'T ENTER FIRE AREA W/O PROPER PROTECTION BECAUSE HAZARD DECOMP PROD MAY BE PRESENT.  
Unusual Fire/Explosion Hazard:WATER PRESSURE MAY SPREAD A FLAMMABLE LIQUID FIRE. SEALED CONTAINERS MAY EXPLODE IF OVERHEATED.

===== Accidental Release Measures =====

Spill Release Procedures:WARNING - FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. SOAK UP WITH AN ABSORBENT AND PLACE IN NON-LEAKING CONTAINERS. SEAL TIGHTLY FOR PROPER DISPOSAL.

===== Handling and Storage =====

Handling and Storage Precautions:HAZARD-FLAMM. KNOW DOT REGS BEFORE TRANSPORTING MAT'L. WARNING: HOT ORGANIC CHEMICAL VAPORS/MIST SUCEPTIBLE TO SPONTANEOUS COMBUST WHEN MIXED W/AIR.  
Other Precautions:IGNIT MAY OCCUR AT TEMPS BELOW THOSE PUBLISHED IN LITERATURE (AUTOIGNIT/IGNIT TEMPS). IGNIT TEMPS DECREASE W/INCREASING VAPOR VOL & VAPOR/AIR CONTACT TIME INFLUENCED BY PRESSURE CHANGES. IGNIT MAY OCCUR AT TYPICAL ELEVATED TEMP PROCESS #

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IMPORTANT-MUST PROVIDE ADEQUATE VENTILATION TO MAINTAIN VAPOR CONCENTRATION BELOW ESTABLISHED TLV LIM

IT AS GIVEN

BY OSHA. IN MORE CONFINED AREAS NIOSH/MSHA APPROVED RESPIRATOR EQUIPPED W/ORGANIC VAPOR CARTRIDGE SHOULD BE WORN.

Ventilation:MUST PROVIDE ADEQUATE VENTILATION, SEE RESPIRATORY PROTECTION.

Protective Gloves:USE RUBBER GLOVES.

Eye Protection:WEAR SAFETY GOGGLES, FACE SHIELD.

Other Protective Equipment:HAVE EYE BATH AND SAFETY SHOWER AVAILABLE.

Work Hygienic Practices:N/K \*\*\* CLOTHING & SHOES. WASH W/SOAP & WATER.

DON'T REUSE CONTAM CLOTHING/SHOES. IF IRRITATION PERSI

STS, GET MED

AID.

Supplemental Safety and Health

# CONDITIONS, ESPECIALLY IN PROCESS OPERATING UNDER VACUUM IF SUBJECTED TO SUDDEN INGRESS OF AIR/OUTSIDE PROCESS EQUIP OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPOR/MIST TO ATMOSPHERE OC CURS. EVALUATE ANY PROPOSED USE IN ELEVATED TEMP PROCESS TO ASSURE SAFE OPERATING CONDITIONS ESTABLISHED/MAINTAINED.

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:174 TO 232F

Vapor Den

sity:> AIR.

Spec Gravity:1.03

Viscosity:>200 CENT

Evaporation Rate & Reference:3.42 X N-BUTYL ACETATE

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR LIQUID; SOLVENT ODOR.

Percent Volatiles by Volume:40.0

Corrosion Rate:NOT CORR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

MAY BE INCOMPATIBLE WITH OXIDIZING AGENTS AND STRONG ALKALIES.

Stability Condition to Avoid:AVOID HEAT, SPARKS, OPEN FLAMES AND INCOMPATIBILITIES

Hazardous Decomposition Products:INCOMPLETE COMBUSTION FOR PRODUCTS LIKE THIS MAY GENERATE HIGHLY POISONOUS CARBON MONOXIDE AND OTHER TOXIC GASES.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH CURRENT LOCAL, STATE, AND FEDERAL REGULATION. CONTACT AN APPROVED DISPOSAL FACILITY. EPA HZD#: D001, IGNITABLE. \*\* ANYTHING BY MOUTH TO UNCONSCIOUS PER SON. SKIN: FLUSH W/WATER WHILE REMOVINGC

ONTAM \*\*\*

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