

CRAWFORD LABORATORIES, INC. -- MIL-C-22750E, #17925, PART A, P/N M1-051 -- 8010-01-313-8700  
===== Product Identification =====

Product ID:MIL-C-22750E, #17925, PART A, P/N M1-051  
MSDS Date:05/18/1994  
FSC:8010  
NIIN:01-313-8700  
Kit Part:Y  
MSDS Number: BVGSD  
=== Responsible Party ===  
Company Name:CRAWFORD LABORATORIES, INC.  
Address:4165 SOUTH EMERALD AVENUE  
City:CHICAGO  
State:IL  
ZIP:60609  
Country:US

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 LABORATIES, INC  
Address:4165 SOUTH EMERALD AVENUE  
City:CHICAGO  
State:IL  
ZIP:60609  
Phone:800-424-9300 CHEMTREC  
CAGE:DO165  
Company Name:CRAWFORD LABORATORIES, INC  
Address:4165 SOUTH EMERALD AVENUE  
Box:City:CHICAGO  
State:IL  
ZIP:60609  
Country:US  
Phone:312-376-7132  
CAGE:5V430

===== Composition/Information on Ingredients

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Ingred Name:REACTION PRODUCTS OF EPICHLOROHYDRIN & BISPHENOL A  
CAS:25085-99-8  
Fraction by Wt: 19%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:TOLUENE (SARA III) (VAPOR PRESSURE 38 MM HG)  
CAS:108-88-3  
RTECS #:XS5250000  
Fraction by Wt: 8.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:100 PPM  
ACGIH TLV:100 PPM;STEL 150 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:100 SOLVENT (VAPOR PRESSURE 9. MM HG)  
CAS:64742-95-6  
Fraction by Wt: 1.3%  
Other REC Limits:NONE RECOMMEND  
ED  
OSHA PEL:50 PPM  
ACGIH TLV:50 PPM

Ingred Name:TITANIUM OXIDE  
CAS:13463-67-7  
RTECS #:XR2275000  
Fraction by Wt: 26%  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:10 MG/M3

Ingred Name:AMORPHOUS SILICA (TITANIUM OXIDE CONTAINS 0-10% AMORPHOUS  
SILICA)  
CAS:112926-00-8  
RTECS #:VV8850000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:ALUMINIUM HYDROXIDE (TITANIUM OXIDE CONTAINS 0-9% ALUMINUM  
HYDROXIDE)  
CAS:21645-51-2  
RTECS #:BD0940000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICON DIOX

IDE  
CAS:14808-60-7  
RTECS #:VV7330000  
Fraction by Wt: 7.2%  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:0.1 MG/M3

Ingred Name:METHYL ETHYL KETONE (SARA III) (VAPOR PRESSURE 71.2 MM HG)  
CAS:78-93-3  
RTECS #:EL6475000  
Fraction by Wt: 12%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:100 PPM  
ACGIH TLV:200 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:VOC: 298 G/L  
RTECS #:9999999VO  
Other REC Limits:NONE RECOMMENDED

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

Report  
s of Carcinogenicity:NTP:UNKNOWN IARC:YES  
Health Hazards Acute and Chronic:OVEREXPOSURE MAY PRODUCE VARIOUS  
EFFECTS, INCLUDING: ACUTE TOXICITY (HEADACHE, DIZZINESS, NAUSEA,  
UNCONSCIOUSNESS). SEVERE EYE IRRITATION (POSSIBLY PERMANENT  
DAMAGE). IRRITATED MUCOUS MEMBRANES. VOMIT ING DUE TO INGESTION.  
DEFATTING & DRYING OF SKIN. SENSITIZATION AFTER REPEATED CONTACT.  
Explanation of Carcinogenicity:IARC HAS CONCLUDED THAT THERE IS LIMITED  
EVIDENCE FOR THE CARCINOGENICITY OF CRYSTA  
LINE SILICA TO HUMANS.

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

First Aid:EYE:FLUSH W/LUKEWRM LOW PRESSR H2O 15 MIN,LIFT EYELID.GET MED  
AID.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN IF BREATH DIFFICLT.GIVE  
ARTIF RESP,IF NO BREATH.GET MED AID.KEEP WARM/COMFRTBL.NEVER GIVE  
UNCONS CIOUS LIQ.INGEST:CALL DR IMMED.INDUCE VOMIT ON DR'S  
INSTRCTN.IF VOMIT,KEEP HEAD BELOW HIP.NEVER GIVE ANYTHING TO  
UNCONSCIOUS.SKIN:FLUSH W/H2O REMOVING CONTAM CLOTH.WASH  
W/

SOAP&H2O.GET MED AID IF IRRIT

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

Flash Point Method:SCC

Flash Point:22.0F,-5.6C

Lower Limits:0.9

Extinguishing Media:FOAM, CO2, OR DRY CHEMICAL

Fire Fighting Procedures:WATER MAY BE USED TO COOL EXPOSED CONTAINER, & TO KEEP FLAMMABLE STRUCTURES WET. DON'T ENTER FIRE AREA WITHOUT PROTECTION BECAUSE DECOMP PRODUCT 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:FLAMMABLE. KNOW DOT REGS BEFORE TRANSPORTING.

WARNING:HOT ORGANIC CHEMICAL VAPOR OR MIST SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED W/AIR.

Other Precautions:IGNIT MAY OCCUR AT TEMP BELOW AUTOIGNIT/IGNIT TEMPS.IGNIT TEMPS DECREASE W/INCREASING VAPOR VOLUME & VAPOR/AIR CONTACT TIME & INFLUENCED BY PRESSR CHANGE.IGNIT MAY OCCUR AT ELEVATED TEMP,ESPECIALLY IN VACUUM IF SUDDEN INGRESS AIR OR \*

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

Respiratory Protection:IMPORTANT-MUST PROVIDE ADEQUATE VENTILATION TO

MAINTAIN VAPOR CONCENTRATIONS BELOW ESTABLISHED TLV LIMIT AS GIVEN BY OSHA. IN MORE CONFINED AREAS NIOSH-MSHA APPROVED RESPIRATOR EQUIPPED WITH ORGANIC VAPOR CARTRIDGE SHOULD BE WORN.

Ventilation:MUST PROVIDE ADEQUATE VENTILATION.

Protective Gloves:USE RUBBER GLOVES.

Eye Protection:WEAR APPROVED SAFETY GOGGLES OR FACESHLD

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

Work Hygienic Practices:DO NOT REUSE CONTAMINATED CLOTHING OR SHOES.

Suppl

emental Safety and Health

\* OTHER PRECAUTIONS CONT'D: OUTSIDE PROCESS EQUIPMENT OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPOR OR MIST TO THE ATMOSPHERE OCCURS. ANY PROPOSED USE SHOULD BE THOROUGHLY EVALUATED TO ASSURE THAT SAFE OPERATING CONDITIONS ARE ESTABLISHED AND MAINTAINED.

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

Boiling Pt:B.P. Text:174 TO 344F

Vapor Density:> AIR

Spec Gravity:1.27

Viscosity:71 KU

Evaporation Rate & Referen

ce:3.4 X N-BU AC

Solubility in Water:SLIGHT

Appearance and Odor:WHITE LIQUID / SOLVENT ODOR

Percent Volatiles by Volume:36.2

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

Hazardous Decomposition Products:INCOMPLETE COMBUSTION FOR PRODUCTS

LIKE THIS MAY GENERATE HIGHLY POISONOUS CA

RBON MONOXIDE AND OTHER

TOXIC GASES.

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS. CONTACT AN APPROVED DISPOSAL FACILITY. EPA HAZARDOUS WASTE CODE: D001, IGNITABLE.

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