

CRAWFORD LABORATORIES, INC. -- TT-C-535 CLEAR PART B UO-078 -- 8010-00-990-8256  
===== Product Identification =====

Product ID:TT-C-535 CLEAR PART B UO-078  
MSDS Date:11/09/1989  
FSC:8010  
NIIN:00-990-8256  
Kit Part:Y  
MSDS Number: BHNBK  
=== 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:312-433-1307  
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 =====

Ingred Name:ISOPROPYL ALCOHOL (SARA III)  
CAS:67-63-

0

RTECS #:NT8050000  
Fraction by Wt: 20-50%  
OSHA PEL:400 PPM/500 STEL  
ACGIH TLV:400 PPM/500STEL;9192

Ingred Name:TOLUENE (SARA III)  
CAS:108-88-3  
RTECS #:XS5250000  
Fraction by Wt: 5-20%  
OSHA PEL:200 PPM/150 STEL  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:METHYL CHLOROFORM (1,1,1-TRICHLOROETHANE) (SARA III)  
CAS:71-55-6  
RTECS #:KJ2975000  
Fraction by Wt: 20-50%  
OSHA PEL:350 PPM/450 STEL  
ACGIH TLV:350 PPM/450STEL;9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS  
Ozone  
Depleting Chemical:1

Ingred Name:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA III)  
CAS:123-91-1  
RTECS #:JG8225000  
Fraction by Wt: < 1%.  
OSHA PEL:S, 100 PPM  
ACGIH TLV:S, 25 PPM; 9293  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:1,2-BUTYLENE OXIDE (SARA III)  
CAS:106-88-7  
RTECS #:EK3675000  
Fraction by Wt: < 1%.  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:NITROMETHANE  
CAS:75-52-5  
RTECS #:PA9800000  
Fraction by Wt: < 1%.  
OSHA PEL:100 PPM  
ACGIH TLV:100 PPM; 9192

===== Hazards

Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:WARNING: CARE MUST BE TAKEN NOT TO EXCEED THE EXPOSURE LIMIT FOR THE LOWEST TLV SHOWN. WHEN IN DOUBT. WEAR AN APPROVED RESPIRATOR & ORDER AIR SAMPLING TEST.

Explanation of Carcinogenicity:MAY CONTAIN TRACE AMOUNTS OF SOME CHEM KNOWN TO THE STATE OF CA TO BE CARCINOGENS OR REPRODUCTIVE TOXINS

Effects of Overexposure:OVEREXPOSURE MAY PRODUCE VARIOUS EFFECTS.

INCLUDING: 1-ACUTE TOXICITY, RESULTING HEADACHE, DIZZ, NAUSEA, LOSS OF CONSC. 2-EYE IRR. 3-IRRI MUCOUS MEMBRANES. 4-VO-MITING DUE TO INGESTION. 5-DEFATT & DRY SKIN, WHICH MAY RESULT IN IRRI & DER-MATITIS.

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

First Aid:EYE: FLUSH W/PLENTY OF CLEAN LUKEWARM WTR 15 MIN, LIFT LIDS. GET MED ATTN. INHAL REMOVE VICTIM TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. GET MED ATTN. KEEP VITIM WARM & QUIET. NEVER GIVE TO

UNCONSC PERSON. INGES: DO NOT INDUCE VOMIT. IFOCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION INTO LUNGS. GET MED ATTN. IF ALERT ADMIN LUKEWARM WTR (PINT) SKIN: FLUSH W/WTR, WASH SOAP & WTR. GET MED.

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

Flash Point Method:SCC

Flash Point:75 F/ 23.69 C

Lower Limits:1.2

Extinguishing Media:FOAM, CO2, OR DRY CHEMICAL

Fire Fighting Procedures:USE WATER TO KEEP EXPOSED CONT COOL & KEEP FLAMM STRUCT WET. DON

'T ENTER FIRE AREA WITHOUT PROTECTION, HAZARDOUS DECOMPOSITION PRODUCTS MAY BE PRESENT.

Unusual Fire/Explosion Hazard:WATER PRESSURE MAY SPREAD A FLAMMABLE LIQ FIRE. SEALED CONTAINER MAY EXPLODE IF OVERHEATED

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

Spill Release Procedures:WARNING-FLAMMABLE. ELIM ALL IGNITION SOURCES. HANDLING EQUIP MUST BE GROUNDED. SOAK UP WITH AN ABSORBENT & PLACE IN NON-LEAKING CONTAINERS. SEAL TIGHTLY FOR PROPER DISPOSAL

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

Handling and Storage Precautions:TREAT AS A HAZARDOUS-FLAMMABLE MATERIAL. KNOW APPLICABLE D.O.T. REG BEFORE ATTEMPTING TO TRANSPORT THIS MATERIAL

Other Precautions:TREAT AS HAZARDOUS-FLAMMABLE MATERIAL. KNOW ALL APPLICABLE DOT REG BEFORE TRANSPORTING. WARNING: HOT ORGANIC CHEM VAPORS OR MISTS ARE SUSEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED W/AIR. IGNI TION MAY OCCUR AT TEMP BELOW LIMITS

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Exposure Controls/Personal Protection =====

Respiratory Protection:IMPORTANT-MUST PROVIDE ADEQUATE VENT TO MAINTAIN VAPOR CONCENTRATIONS BELOW THE ESTAB TLV LIMIT AS GIVE BY OSHA. CONFINED AREAS NIOSH/MSHA APPROVED RESPIRATOR EQUIPPED WITH ORGANIC VAPOR CARTRIDGE SH OULD BE WORN.

Ventilation:ADEQUATE VENT. SEE ABOVE

Protective Gloves:RUBBER GLOVES

Eye Protection:SAFETY GOGGLES &/OR FACE SHIELD

Other Protective Equipment:HAVE EYE BATH AVAILABLE

Supplemental Safety and Hea

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WARNING: THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF SOME CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO BE CARCINOGENS OF REPRODUCTIVE TOXINS.

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

Boiling Pt:B.P. Text:165-232 F

Vapor Density:> AIR

Evaporation Rate & Reference:0.93 X N-BUTYL ACETATE

Appearance and Odor:CLEAR LIQUID

Percent Volatiles by Volume:62.2

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

Stability Indicator/Materials to

Avoid:YES

MAY BE INCOMPATIBLE WITH OXIDIZING AGENTS & STRONG ALKALIES

Stability Condition to Avoid:HEAT, SPARKS, OPEN FLAMES, &

INCOMPATIBILITIES ABOVE HIGH TEMP. STRONG OXIDIZING COND. EXTEND CONTACT WITH AIR/OXYGEN

Hazardous Decomposition Products:INCOMPLETE COMB FOR PRODUCTS LIKE THIS

MAY GENERATE HIGHLY POISONOUS CARBON MONOXIDE & OTHER TOXIC GASES

Conditions to Avoid Polymerization:MAY BE INCOMPATIBLE WITH OXIDIZING

AGENTS & STRONG ALKALIES

==== Disposal

Considerations =====

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH CURRENT LOCAL,STATE AND FEDERAL REGULATION. CONTACT AN APPROVED DISPOSAL FACILITY.

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