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

Product ID:MIL-C-22750F, ACTIVATOR, PART B, UO-130

MSDS Date:03/08/1996

FSC:8010

NIIN:01-419-1141

Kit Part:Y

MSDS Number: CBVJF

=== 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

Prepa

rer'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

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

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA III)

(VP =  
71.2 MMHG)

CAS:78-93-3  
RTECS #:EL6475000  
Fraction by Wt: 40.0%  
OSHA PEL:200 PPM/300 STEL  
ACGIH TLV:200 PPM/300STEL 9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:NH2CH2CH(CH3)(CH2)3NH2 (VP=130.0 MMHG)  
CAS:15520-10-2  
RTECS #:SA0248500  
Fraction by Wt: 25.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:NOT EST.  
ACGIH TLV:NOT EST.

Ingred Name:PHENYL CARBINOL (MAY CONTAIN AS IMPURITIES: 100-52-7  
BENZALDEHYDE 0.3%, 103-50-4 DIBENZYL ETHER 0.1%, 150-76-5 0.025%)  
CAS:100-51-6  
R  
TECS #:DN3150000  
Fraction by Wt: 22.0%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:EPOXY RESIN  
CAS:25085-99-8  
Fraction by Wt: 9.9%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:BENZYL DIMETHYLAMINE  
CAS:103-83-3  
RTECS #:DP4500000  
Fraction by Wt: 3.0%  
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chroni

c:REPEATED/PROLONGED OCCUPATIONAL

OVEREXPOSURE TO SOLVENTS ASSOCIATED W/PERMANENT BRAIN/NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. PROLONGED OVEREXPOSURE (INHAL)MAY CAUSE DELAYED LUNG DISEASE.

Explanation of Carcinogenicity:MAY CONTAIN TRACE AMTS OF SOME CHEM

KNOWN TO THE STATE OF CATO BE CARCINOGENS OR REPRODCTIVE TOXINS.

Effects of Overexposure:OVEREXPOSURE MAY PRODUCE VARIOUS EFFECTS. ACUTE

TOXICITY (HEADACHE, DIZZINESS, NAUSEA, LOSS CONSCIOUSNESS. SEVERE EYE IRRITATION POSSIBLY RESULTING PERMANENT DAMAGE. IRRITATED MUCOUS MEMBRANES. VOMITING FROM INGESTION. SKIN DEFATTING/DRYING. SENSITIZATION AFTER REPEATED CONTACT.

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

First Aid:EYE: FLUSH W/PLENTY CLEAN H2O 15 MIN, LIFTING LIDS, GET MED ATTN. INHAL: GET FRESH AIR, PROVIDE OXYGEN IF BREATH DIFFICULT. GIVE ARTIF RESP IF NOT BREATHING. GET ME

D ATTN. KEEP VICTIM

WARM/QUIET. NEVER GIVE UNCONS PERSON LIQ. INGEST: CALL DR. IMMED. DON'T INDUCE VOMIT. IF VOMIT SPONTANEOUSLY, KEEP HEAD BELOW HIPS.

SKIN: FLUSH W/H2O WHILE REMOVING CONTAM CLOTHES/SHOES. IF IRRIT PERSIST, GET MED AID

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

Flash Point Method:SCC

Flash Point:22.0F,-5.6C

Lower Limits:1.8

Extinguishing Media:FOAM, CO2, OR DRY CHEMICAL

Fire Fighting Procedures:WATER MAY BE USED TO KEEP EXPOSED CONTAINERS

COOL & KEEP FLAMMABLE STRUCTURE WETDON'T ENTER FIRE AREA WITHOUT PROPER PROTECTION, HAZARDOUS DECOMP MAY BE PRESENT

Unusual Fire/Explosion Hazard:WATER PRESSURE MAY SPREAD A FLAMMABLE LIQUID FIRE. SEALED CONTAINERS MAY EXPLODE IF OVER HEATED.

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

Spill Release Procedures:WARNING - FLAMMABLE. ELIMINATE ALL IGNITION

SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING.

SOAK UP WITHABSORBENT & PL

ACE IN NON-LEAKING CONATINERS. 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:WARNING: HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE  
SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED W/AIR.  
IGNITION MAY OCCUR @ TEMPS BELOW THOSE PUBLISHED AS  
AUTOIGNITI  
ON/IGNITION TEMPS. IGNITI ON TEMPS DECREASE W/INCREASING  
VAPOR\*

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

Respiratory Protection:IMPORTANT-MUST PROVIDE ADEQUATE VENT TO MAINTAIN  
VAPOR CONCENTRATE BELOW ESTAB- LISHED TLV LIMIT AS GIVEN BY OSHA.  
IN MORE CONFINED AREAS A NIOSH/MSHA APPROVED RESPIRATOR EQUIPPED  
WITH ORGANIC VAPOR C ARTRIDGE SHOULD BE WORN.

Ventilation:MUST PROVIDE ADEQUATE VENTILATION, SEE PARAGRAPH ABOVE.

Protective Gloves:USE RUBBER GLOV  
ES

Eye Protection:APPROVED SAFETY GOGGLES &/OR FACE SHIELD

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

Supplemental Safety and Health

VOLUME AND VAPOR/AIR CONTACT TIME AND ARE INFLUENCED BY PRESSURE  
CHANGES. IGNITION MAY OCCUR AT TYPICAL ELEVATED TEMPERATURE PROCESS  
CONDITIONS, ESPECIALLY IN PROCESS OPERATING UNDER VACUUM IF SUBJECT  
ED TO SUDDEN INGRESS OF AIR, OUTSIDE PROCESS EQUIPMENT OPERATING  
UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPORS/MIST

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

Boiling Pt:B.P. Text:175 TO 401F

Vapor Density:>AIR

Spec Gravity:0.91

Viscosity:>200 CENTISTO

Evaporation Rate & Reference:3.03 X N-BUTYL ACETATE

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR LIQUID

Percent Volatiles by Volume:70.0

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS & STRONG ALKALIES. NOT CORROSIVE TO METAL.

Stability Condi

on to Avoid:HEAT, SPARKS, OPEN FLAMES, STRONG  
ALKALIES, & OXIDIZING AGENTS.

Hazardous Decomposition Products:INCOMPLETE COMBUSTION OR 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 & FEDERAL REG. CONTACT AN APPROVED DISPOSAL FACILITY

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