

CRAWFORD LABORATORIES, INC. -- MIL-C-22750F, ACTIVATOR, PART B UO-143 --  
8010-01-419-1169

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

Product ID:MIL-C-22750F, ACTIVATOR, PART B UO-143

MSDS Date:03/07/1996

FSC:8010

NIIN:01-419-1169

Kit Part:Y

MSDS Number: CBVLF

=== Responsible Party ===

Company Name:CRAWFORD LABORATORIES, INC.

Address:4165 SOUTH EMERALD AVENUE

City:CHICAGO

State:IL

ZIP:60609

Country:US

Inf

o Phone Num:312-376-7132

Emergency Phone Num:800-424-9300

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 =====

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:NONYL PHENOL (VP = 0.9 MMHG)  
CAS:84832-15-3  
Fraction by Wt: 40.0%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:MXDA (METAXYLENE DIAMINE)  
CAS:1477-55-0  
RTECS #:PF8970000  
Fraction by Wt: 20.0%  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:0.1 MG/M3

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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 Chronic: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 O R FATAL. PROLONGED  
OVEREXPOSURE (INHAL)MAY CAUSE DELAYED LUNG DISEASE.

Ex  
planation 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. VOMITI NG FROM INGESTION. SKIN DEFATTING/DRYING.  
SENSITIZATION AFTER REPEATED CONTACT.

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===== First Aid Measures

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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 MED ATTN. KEEP VICTIM  
WARM/QUIET. NEVE R 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

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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.

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Accidental  
Release Measures =====

Spill Release Procedures:WARNING - FLAMMABLE. ELIMINATE ALL IGNITION  
SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING.  
SOAK UP WITHABSORBENT & PLACE 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 MATERIA

L.

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  
AUTOIGNITION/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 CARTRIDGE SHOULD BE WORN.

Ventilation:MUST PROVIDE ADEQUATE VENTILATION, SEE PARAGRAPH ABOVE.

Protective Gloves:USE RUBBER GLOVES

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 PROCESSES

CONDITIONS, ESPECIALLY IN PROCESS OPERATING UNDER VACUUM IF SUBJECT TO SUDDEN INGRESS OF AIR, OUTSIDE PROCESS EQUIPMENT OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPORS/MIST

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

Boiling Pt:B.P. Text:175 TO 545F

Vapor Density:>AIR

Spec Gravity:0.89

Viscosity:20 CPS

Evaporation Rate & Reference:4.82 X N-BUTYL ACETATE

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR LIQUID

Percent Volatiles by Volume:

44.4

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS & STRONG ALKALIES. NOT CORROSIVE TO METAL.

Stability Condition 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 =====

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

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