

CRAWFORD LABORATORIES, INC. -- MIL-C-22750F, ACTIVATOR, PART B UO-143 --
8010-01-414-8449

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

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

MSDS Date:03/07/1996

FSC:8010

NIIN:01-414-8449

Kit Part:Y

MSDS Number: CBVGM

=== 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 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 CALIF TO BE CARCINOGENS OR REPRODUCTIVE 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.

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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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