

CRAWFORD LABORATORIES, INC. -- MIL-C-22750F, ACTIVATOR, PART B, UO-137 --
8010-01-414-8441

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

Product ID:MIL-C-22750F, ACTIVATOR, PART B, UO-137

MSDS Date:03/07/1996

FSC:8010

NIIN:01-414-8441

Kit Part:Y

MSDS Number: CBVFV

=== Responsible Party ===

Company Name:CRAWFORD LABORATORIES, INC.

Address:4165 SOUTH EMERALD AVENUE

City:CHICAGO

State:IL

ZIP:60609

Country:US

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Info Phone Num:312-376-7132

Emergency Phone Num:800-424-9300

Preparer's Name:DAVID SCHMETTERER

CAGE:DO165

=== Contractor Identification ===

Company Name:CRAWFORD LABORATORIES, 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:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA III) (VP = 71.2 MMHG)

CAS:78-93-3

RTECS #:EL6475000

Fraction by Wt: 48.0%

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: 14.0%

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

RTECS #:DN3150000

Fraction by Wt: 13.0%

Other REC Limits:NONE RECOMMENDED

Ingred Name:EPOXY RESIN

CAS:25085-99-8

Fraction by Wt: 5.7%

Other REC Limits:NONE RECOMMENDED

=====**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 S

OLVENTS 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 CONSCIOUS

NESS. 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 MED ATTN. KEEP VICTIM WARM/QUIET. NEVER GIVE UNCONSCIOUS PERSON LIQ. INGEST: CALL DR. IMMEDIATE. DON'T INDUCE VOMIT. IF VOMIT SPONTANEOUSLY, KEEP HEAD BELOW HIPS. SKIN: FLUSH W/H2O WHILE REMOVING CONTAM CLOTHES/SHOES. IF IRRITATION PERSISTS, 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 WITH ABSORBENT & PLACE IN NON-LEAKING CONTAINERS. SEAL TIGHTLY FOR PROPER DISPOSAL.

===== 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 AUTOIGNITION/IGNITION TEMPS. IGNITION TEMPS DECREASE W/INCREASING

G

VAPOR*

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

Respiratory Protection:IMPORTANT-MUST PROVIDE ADEQUATE VENT TO MAINTAIN VAPOR CONCENTRATE BELOW ESTABLISHED 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 PROCESS 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 401F

Vapor Density:>AIR

Spec Gravity:1.06

Viscosity:70 KU

Evaporation Rate & Reference:3.77 X N-BUTYL ACETATE

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR LIQUID

Percent Volatiles by Volume:80.9

===== 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 =====

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

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