

CRAWFORD LABORATORIES, INC. -- MIL-C-22750, 24084 GREEN, PART A, M4-038 --
8010-01-419-1148

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

Product ID:MIL-C-22750, 24084 GREEN, PART A, M4-038

MSDS Date:03/07/1996

FSC:8010

NIIN:01-419-1148

Kit Part:Y

MSDS Number: CBVJQ

=== 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

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

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===== 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: 14.0%

OSHA PEL:200 PPM/300 STEL

ACGIH TLV:200 PPM/300STEL 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:TOLUENE (SARA III)

CAS:108-88-3

RTECS #:XS5250000

Fraction by Wt: 3.4%

OSHA PEL:100 PPM

ACGIH TLV:100 PPM

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:EPOXY RESIN

CAS:25085-99-8

Fraction by Wt: 21.0%

Other REC Limits:NONE RECOMMENDED

Ing

red Name:NAPHTHA, LIGHT AROMATIC (VP = 9.0 MMHG)

CAS:64742-95-6

Fraction by Wt: 1.7%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:50 PPM

ACGIH TLV:50 PPM 9091

Ingred Name:SILICA, CRYSTALLINE - QUARTZ (MAY BE RELEASED BY SANDING DRIED PAINT FILM)

CAS:14808-60-7

RTECS #:VV7330000

Fraction by Wt: 19.0%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:NOT EST.

ACGIH TLV:0.1 MG/M3 RDUST;9495

Ingred Name:ALIPHATIC GLYCIDYL ETHER (DILUENT 8)

CAS:68609-97-2

Fraction by Wt: 2.2%

Other REC Limits:NONE RECOM

MENDED

Ingred Name:SILICONE DIOXIDE (DIATOMACEOUS EARTH)

CAS:68855-54-9

RTECS #:HL8600000

Fraction by Wt: 8.6%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:10 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST

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

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

Reports of Carcinogenicity:NTP:NO IARC:YES 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:FROM INITIAL LIMITED TESTS/STUDIES IARC

CONCLUDES IS LIMITED EVIDANCE OF CARCINOGENICITY FROM CRYSTALLINE SILICA.

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 =====

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 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:1.4

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 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
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 C ARTRIDGE 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 Protecti

ve Equipment:HAVE EYE BATH & SAFETY SHOWER AVAILABLE.

Supplemental Safety and Health

*VOLUME & 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
SUBJECTE D TO SUDDEN INGRESS OF AIR, OUTSIDE PROCESS EQUIPMENT
OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPORS/MIST.

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

Boilin

g Pt:B.P. Text:175 TO 344F

Vapor Density:>AIR

Spec Gravity:1.34

pH:NA

Viscosity:85 KU

Evaporation Rate & Reference:3.87 X N-BUTYL ACETATE

Solubility in Water:SLIGHT

Appearance and Odor:GREEN LIQUID, SOLVENT ODOR

Percent Volatiles by Volume:34.5

===== 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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