

CHEMICAL SPECIALISTS AND DEVELOPMENT INC -- MIL-T-81772-B TYPE I -- 8010-00-181-8079
===== Product Identification =====

Product ID:MIL-T-81772-B TYPE I

MSDS Date:11/20/1996

FSC:8010

NIIN:00-181-8079

Status Code:A

MSDS Number: CLQXG

=== Responsible Party ===

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Info Phone

Num:409-756-1065

Emergency Phone Num:(800)424-9300

Preparer's Name:HENRY SIMMONS

Chemtec Ind/Phone:(800)424-9300

CAGE:4N760

=== Contractor Identification ===

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

CAGE:4N760

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

Ingred Name:C6-RICH OXO-ALCOHOL ACETATES

CAS:88230-35-7

ACGIH TLV:50 PPM

Ingred Name:METHYL ETHYL KETONE

CAS:

78-93-3
RTECS #:EL6475000
= Wt:28.
OSHA PEL:590 MG/M3;200 PPM
ACGIH TLV:590 MG/M3;200 PPM
ACGIH STEL:885 MG/M3;300 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:TOLUENE
CAS:108-88-3
RTECS #:XS5250000
= Wt:11.
OSHA PEL:SEE TABLE Z-2
ACGIH TLV:188 MG/M3;50 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:N-BUTYL ACETATE
CAS:123-86-4
RTECS #:AF7350000
= Wt:5.
OSHA PEL:710 MG/M3;150 PPM
ACGIH TLV:713 MG/M3;150 PPM
ACGIH STEL:950 MG/M3;200 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5
000 LBS

Ingred Name:XYLENE
CAS:1330-20-7
RTECS #:ZE2100000
= Wt:5.
ACGIH TLV:434 MG/M3;100 PPM
ACGIH STEL:651 MG/M3;150 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:ETHYLBENZENE
CAS:100-41-4
RTECS #:DA0700000
< Wt:2.
OSHA PEL:435 MG/M3;100 PPM
ACGIH TLV:434 MG/M3;100 PPM
ACGIH STEL:543 MG/M3;125 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

Explanation of Carcinogenicity:THIS PRODUCT HAS NO CARCINOGENS LISTE

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BY IARC, NTP, NIOSH, OSHA OR ACGIH AS OF THIS DATE, GREATER OR EQUAL TO 0.1%. THIS PRODUCT MAY CONTAIN LESS THAN 40 PPM OF BENZENE. NOT CONSIDERED HAZARDOUS IN SUCH LOW CONCENTRATIONS. ABSORPTION THRU SKIN MAY BE HARMFUL. STUDIES WITH LABORATORY ANIMALS INDICATE THIS PRODUCT CAN CAUSE DAMAGE TO FETUS.

Effects of Overexposure: EYES & SKIN CONTACT: PRIMARY IRRITATION TO SKIN. DEFATTING, DERMATITIS. ABSORPTION THRU SKIN INCREASES EXPOSURE. PRIMARY IRRITATION TO EYES, REDNESS, TEARING, BLURRED

VISION. LIQUID CAN CAUSE EYE BURN. WASH THOROUGHLY AFTER HANDLING.

INHALATION: ANESTHETIC IRRITATES RESPIRATORY TRACT. ACUTE OVEREXPOSURE CAN CAUSE SERIOUS NERVOUS SYSTEM DEPRESSION. VAPOR HARMFUL. BREATHING VAPOR CAN CAUSE IRRITATION. ACUTE OVEREXPOSURE CAN CAUSE DAMAGE TO KIDNEYS, BLOOD, NERVES, LIVER & LUNGS.

SWALLOWING: HARMFUL OR FATAL IF SWALLOWED. SWALLOWING CAN CAUSE ABDOMINAL IRRITATION, NAUSEA, VOMITING & DIARRHEA.

Medical Cond Agg

aggravated by Exposure: CHRONIC OVEREXPOSURE CAN CAUSE

DAMAGE TO KIDNEYS, BLOOD, NERVES, LIVER & LUNGS. PERSON WITH SEVERE SKIN OR KIDNEY PROBLEMS SHOULD AVOID USE.

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

First Aid: EYE CONTACT: FOR EYES, FLUSH PLENTY OF WATER FOR 15 MINUTES & GET MEDICAL ATTENTION. SKIN CONTACT: IN CASE OF SKIN CONTACT WITH SKIN IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH THOROUGHLY WITH SOAP & WATER. WASH CONTAMINATED CLOTHING

BEFORE REUSE. (DISCARD

CONTAMINATED SHOES.) INHALATION: AFTER HIGH VAPOR EXPOSURE, REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. CALL A PHYSICIAN IMMEDIATELY. SWALLOWING: IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY! VOMITING MAY LEAD TO PNEUMONITIS, WHICH MAY BE FATAL.

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

Flash Point Method: TCC

Flash Point: -2.2C, 28.F

Autoignition Temp: =37

1.1C, 700.F

Extinguishing Media:NFPA CLASS B EXTINGUISHERS (CARBON DIOXIDE OR FOAM) FOR CLASS 1 B LIQUID FIRES.

Fire Fighting Procedures:WATER SPRAY MAY BE INEFFECTIVE ON FIRE BUT CAN PROTECT FIRE FIGHTERS & COOL CLOSED CONTAINERS. USE FOG NOZZLES IF WATER IS USED. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR. (HELMET WITH FACE SHIELDS, BUNKER COATS, GLOVES & RUBBER BOOTS). USE NIOSH APPROVED POSITIVE-PRESSURE BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:E

XTREMELY FLAMMABLE! VAPORS CAN CAUSE FLASH FIRE. KEEP CONTAINER TIGHTLY CLOSED. ISOLATE FROM OXIDIZERS, HEAT, SPARKS, ELECTRICAL EQUIPMENT & OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE IF EXPOSED TO EX TREME HEAT. APPLING TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. EMPTY CONTAINERS VERY HAZARDOUS!

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

Spill Release Procedures:STOP SPILL AT SOURCE. DIKE AREA & CONTAIN. CLEAN UP REMAINDER WITH ABSORBENT MATERIALS . MOP UP & DISPOSE OF. PERSONS WITHOUT PROPER PROTECTION SHOULD BE KEPT AWAY FROM AREA UNTIL CLEANED UP.

===== Handling and Storage =====

Handling and Storage Precautions:HANDLING: ISOLATE FROM OXIDIZERS, HEAT, SPARKS, ELECTRIC EQUIPMENT & OPEN FLAME. USE ONLY WITH ADEQUATE VENTILATION. AVOID BREATHING OF VAPOR OR SPRAY MIST. STORAGE: DO NOT STORE ABOVE 49C/120 C. STOR E LARGE AMOUNTS IN STRUCTURES MADE FOR OSHA CLASS 1 B LIQUIDS. KEEP CONTAINER TIGHTLY CLOSED.

Other Precautions:VAPORS MAY IGNITE EXPLOSIVELY & SPREAD LONG DISTANCES. PREVENT VAPOR BUILDUP. PUT OUT PILOTS LIGHTS & TURN OFF HEATERS. ELECTRIC EQUIPMENT& OTHER IGNITION SOURCES DURING USE & UNTIL ALL VAPORS ARE GON E.

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

Ventilation:VENTILATE TO KEEP VAPORS OF THIS MATERIAL BELOW 30 PPM. IF OVER TLV, USE NIOSH APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

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Protection:STANDARD GOGGLES OR FACE SHIELD

Other Protective Equipment:WEAR GLOVES, APRON & FOOTWEAR IMPERVIOUS TO THIS MATERIAL. WASH CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

Boiling Pt:=81.7C, 179.F

B.P. Text:179 262 347 F

Vapor Density:3.5

Spec Gravity:.850

VOC Pounds/Gallon:850

VOC Grams/Liter:7.08

Appearance and Odor:LIQUID, WATER-WHITE AND KETONE ODOR

Percent Volatiles by Volume:100%

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Stability and Reactivity Data =====

ISOLATE FROM STRONG OXIDIZERS SUCH AS PERMANGANATES & PEROXIDES

Stability Condition to Avoid:ISOLATE FROM OXIDIZERS, HEAT, SPARKS, ELETRIC EQUIPMENT & OPEN FLAME.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE FROM BURNING

===== Disposal Considerations =====

Waste Disposal Methods:RECYCLE OR DISPOSE OF OBSERVING LOCAL & FEDERAL HEALTH, SAFETY & POLLUTION LAWS. IF QUESTIONS EXIST, CONTACT THE APPROPRIATE AGENCIES.

===== Regulatory Information =====

SARA Title III Information:SARA TITLE III INGREDIENTS. C6-RICH

OXO-ALCOHOL ACETATES 88230-35-7, METHYL ETHYL KETONE 78-93-3,

TOLUENE 108-88-3, N-BUTYL ACETATE 123-86-4, MIXED XYLENES

1330-20-7, ETHYLBENZENE 100-41-4 SARA SECT ION 311/312 HAZARDS:

ACUTE HEALTH, FIRE. IN ADDITION TO EPA HAZARDOUS AIR POLLUTANTS

SHOWING 'YES' UNDER "HAP ABOVE USING MANUFACTURERS' DATA, B

ASED ON

EPA METHOD 311, THE FOLLOWING EPA HAZARDOUS AIR POLLUTANTS MAY BE PRESENT IN TRACE AMOUNTS (LESS THAN 0.1%) METHYL ETHYL KETONE, MIXED XYLENES, ETHYLBENZENE.

State Regulatory Information: CALIFORNIA PROPOSITION 65: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER & REPRODUCTIVE TOXICITY: BENZENE, TOLUENE

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