

CHEMICAL SPECIALISTS AND DEVELOPMENT INC -- A-A-857-B -- 8010-00-165-5540

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

Product ID:A-A-857-B

MSDS Date:11/09/1996

FSC:8010

NIIN:00-165-5540

Status Code:A

MSDS Number: CLQXF

=== 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

Emerg

ency Phone Num:(800)424-9300

Preparer's Name:HENRY SIMMONS

Chemtrec Ind/Phone:(800)424-9300

CAGE:4N760

=== Contractor Identification ===

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Box:687

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Phone:409-756-1065

CAGE:4N760

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

Ingred Name:N-BUTYL ACETATE

CAS:123-86-4

RTECS #:AF7350000

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:5000 LBS

Ingred Name:LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)
CAS:64742-89-8

Ingred Name:METHYL ETHYL KETONE
CAS:78-93-3
RTECS #:EL6475000
= Wt:12.
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:ISOPROPANOL
CAS:67-63-0
RTECS #:NT8050000
OSHA PEL:980 MG/M3;400 PPM
ACGIH TLV:983 MG/M3;400 PPM
ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name:N-BUTANOL
CAS:71-36-3
RT
ECS #:EO1400000
= Wt:9.
OSHA PEL:300 MG/M3;100 PPM
ACGIH STEL:C152 MG/M3;C50 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:TOLUENE
CAS:108-88-3
RTECS #:XS5250000
= Wt:17.
OSHA PEL:SEE TABLE Z-2
ACGIH TLV:188 MG/M3;50 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

Explanation of Carcinogenicity:THIS PRODUCT HAS NO CARCINOGENS LISTED
BY IARC, NTP, NIOSH, OSHA OR ACGIH AS OF THIS DATE, GREATER OR
EQUAL TO 0.1

% THIS PRODUCT MAY CONTAIN LESS THAN 69 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.

ER 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 Aggravated by Exposure: CHRONIC OVEREXPOSURE CAN CAUSE DAMAGE TO KIDNEYS, BLOOD, NER

VES, LIVER & LUNGS. PERSON WITH SEVERE

SKIN OR KIDNEY PROBLEMS SHOULD AVOID USE.

===== 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

RE, 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.

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

Flash Point Method: TCC

Flash Point: -7.6C, 18.F

Autoignition Temp: 290.6C, 555.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: EXTREMELY 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 EXTREME HEAT. APPLYING 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
M 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: VAPORS MAY IGNITE EXPLOSIVELY & SPREAD LONG DISTANCE
HEATERS, ELECTRIC EQUIPMENT & OTHER IGNITION SOURCES DURING USE.
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 GONE.

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

Ventilation: VENTILATE TO KEEP VAPORS OF THIS MATERIAL BELOW 25 PPM, USE
NIOSH APPROVED POSITIVE PRESSURE SELF CONTAINED BREATHING
APPARATUS.
Eye Protection: WEAR OSHA STANDARD GOGGLES OR FACE SHIELD
Other Protective Equipment: CONSULT SAFETY EQUIPMENT SUPPLIER, WEAR
GLOVES, APRON & FOOTWEAR IMPERVIOUS TO THIS MATERIAL. WASH CLOTHING
BEFORE REUSE.
Supplemental Safety and Health

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

Boiling Pt: =78.3C, 173.F
B.P. Text: 173 229 262 F
Vapor Density: 3.0
Spec Gravity: .824
VOC Pounds/Gallon: 823
VOC Grams/Liter: 6.86
Appearance and Odor: LIQUID, WATER-WHITE AND KETONE ODOR
Percent Volatiles by Volume: 90.2%

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

ISOLATE FR

OM STRONG OXIDIZERS SUCH AS PERMANGANATES & PEROXIDES
Stability Condition to Avoid: ISOLATE FROM OXIDIZERS, HEAT, SPARKS,
ELECTRIC 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.

===== R
egulatory Information =====

SARA Title III Information: SARA TITLE III INGREDIENTS: N-BUTYL ACETATE
123-86-4, LIGHT ALIPHATIC SOLVENT NAPHTHA, METHYL ETHYL KETONE
78-93-3, ISOPRANOL 67-63-0, N-BUTANOL 71-36-3. SARA SECTION 311/312
HAZARDS: ACUTE HEALTH, FIRE. IN ADDITION TO EPA HAZARDOUS AIR
POLLUTANTS SHOWING 'YES' UNDER "HAP ABOVE USING MANUFACTURERS'
DATA, BASED ON EPA METHOD 311, THE FOLLOWING EPA HAZARDOUS AIR
POLLUTANTS MAY BE PRESENT IN TRACE AMOUNTS (LESS THAN 0.1%)

BENZENE, 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

===== Other Information =====

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