

EXXON CHEMICAL COMPANY, DIVISION EXXON CORP -- METHYL ETHYL KETONE --  
6810-00-281-2763

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

Product ID:METHYL ETHYL KETONE

MSDS Date:05/08/1999

FSC:6810

NIIN:00-281-2763

Status Code:A

MSDS Number: CKWKB

=== Responsible Party ===

Company Name:EXXON CHEMICAL COMPANY, DIVISION EXXON CORP

Box:3272

City:HOUSTON

State:TX

ZIP:77253-3272

Country:US

Info Phone Num:281-870-600

0\281-870-6884

Emergency Phone Num:800-726-2015

Resp. Party Other MSDS Num.:92050000

Preparer's Name:NOT PROVIDED

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO317

=== 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

Contract Num:SP0450-00-M-SF34

CAGE:4N760

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  
Contract Num:SP0450-01-D-4019  
CAGE:4N760  
Company Name:EXXON CHEMICAL COMPANY, DIVISION EXXON CORP  
Address:Box:3272  
City:HOUSTON  
State:TX  
ZIP:77253-3272  
Country:US  
Phone:800-726-2015/281-870-6000;-6884  
CAGE:TO317

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Composition/Information on Ingredients  
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Ingred Name:THIS PRODUCT IS HAZARDOUS AS DEFINED IN 29 CFR1910.1200.  
OSHA HAZARD: FLAMMABLE. PEL: TLV. EYE IRRITANT.

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Hazards Identification  
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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: EYE CONTACT:  
SEVERELY IRRITATING. IF NOT REMOVED PROMPTLY, WILL INJURE EYE  
TISSUE, WHICH MAY RESULT IN PERMANENT DAMAGE. SKIN CONTACT:  
FREQUENT/PROLONGED CONTACT MAY IRRITATE AND CAUSE DERMATITIS. LOW  
ORDER OF TOXICITY. INHALATION: VAPOR CONCENTRATIONS ABOVE EXPOSURE  
LEVELS ARE IRRITATING TO EYES AND RESPIRATORY TRACT, MAY CAUSE  
HEADACHES AND DIZZINESS, A  
RE ANESTHETIC AND MAY HAVE OTHER CENTRAL  
NERVOUS SYSTEM EFFECTS. INGESTION: SMALL AMOUNTS OF THE LIQUID  
ASPIRATED INTO THE RESPIRATORY SYSTEM DURING INGESTION, OR FROM  
VOMITING, MAY CAUSE PULMONARY EDEMA. CHRONIC EFFE CTS: NO  
NEUROTOXIC EFFECTS.  
Effects of Overexposure:INHALATION: MAY CAUSE HEADACHES AND DIZZINESS,  
ARE ANESTHETIC.

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First Aid Measures  
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First Aid:EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNT OF  
WATE

R FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION. SKIN CONTACT: IMMEDIATELY FLUSH WITH LARGE AMOUNT OF WATER; USE SOAP IF AVAILABLE . REMOVE CONTAMINATED CLOTHING, INCLUDING SHOES, AFTER FLUSHING HAS BEGUN. INHALATION: USING PROPER RESPIRATORY PROTECTION, IMMEDIATELY REMOVE THE AFFECTED VICTIM FROM EXPOSURE. ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING IS STOPPED. KEEP AT REST. CALL FOR PROMPT MEDICAL ATTENTION. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITIN

G. KEEP AT REST. GET PROMPT MEDICAL ATTENTION.

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

Flash Point:=-3.7C, 25.F

Autoignition Temp:=-460.C, 860.F

Lower Limits:1.8

Upper Limits:11.5

Extinguishing Media:EITHER ALLOW FIRE TO BURN OUT UNDER CONTROLLED CONDITIONS OR EXTINGUISH WITH ALCOHOL TYPE FOAM, OR DRY CHEMICAL. TRY TO COVER LIQUID SPILLS WITH FOAM.

Fire Fighting Procedures:USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL. SHUT OFF "

FUEL" TO FIRE. IF A LEAK OR

SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS.

AVOID SPRAYING WATER DIRECT LY INTO STORAGE CONTAINERS DUE TO DANGER OF BOILOVER.

Unusual Fire/Explosion Hazard:FLAMMABLE LIQUID, CAN RELEASE VAPORS THAT FORM FLAMMABLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASHPOINT.

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

Spill Release Procedures:WATER SPILL-ELIMINATE SOURCES OF IGNITION.

WARN OCCUPANTS & SHIPPING IN

SURROUNDING & DOWNWIND AREAS OF FIRE &

EXPLOSION HAZARD & REQUEST ALL TO STAY CLEAR. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL & ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS. \*\*\*(SEE OTHER INFORMATION FOR LAND SPILL DATA).

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED. HANDLE AND OPEN CONTAINERS WITH CARE. STORE IN A COOL, WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. DO

NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. PROTECT MATERIAL FROM DIRECT SUNLIGHT. STORAGE TEMPERATURE, F: AMBIENT.

Other Precautions: THIS MATERIAL IS NOT A STATIC ACCUMULATOR, BUT USE PROPER BONDING AND/OR GROUNDING PROCEDURES. DO NOT PRESSURIZE, CUT, HEAT, OR WELD CONTAINERS. EMPTY PRODUCT CONTAINERS MAY RETAIN PRODUCT RESIDUE. DO NOT REUSE EMPTY CONTAINERS WITHOUT COMMERCIAL CLEANING OR RECONDITIONING.

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/Personal Protection =====

Respiratory Protection: WHERE CONCENTRATIONS IN AIR MAY EXCEED THE LIMITS GIVEN AND ENGINEERING, WORK PRACTICE OR OTHER MEANS OF EXPOSURE REDUCTION ARE NOT ADEQUATE, NIOSH/MSHA APPROVED RESPIRATORS MAY BE NECESSARY TO PREVENT OVEREXPOSURE BY INHALATION.

Ventilation: THE USE OF MECHANICAL DILUTION VENTILATION IS RECOMMENDED WHENEVER IT IS USED IN CONFINED SPACES, HEATED/AGITATED. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

Protective Gloves:

CHEMICAL RESISTANT GLOVES.

Eye Protection: WEAR CONTACT MAY OCCUR, WEAR A FACE SHIELD.

Other Protective Equipment: FOR OPEN SYSTEMS WHERE CONTACT IS LIKELY, WEAR LONG SLEEVES, CHEMICAL RESISTANT GLOVES, & CHEMICAL GOGGLES.

Work Hygienic Practices: NOT PROVIDED

Supplemental Safety and Health

"EMPTY" CONTAINERS RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER IGNITION SOURCES: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

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Physical/Chemical Properties =====

HCC: F2

NRC/State Lic Num: NOT RELEVANT

Boiling Pt: B.P. Text: 175-177F

Melt/Freeze Pt: 1

Spec Gravity: 0.81

pH: NOT RELEVANT

Viscosity: 0.5 CST @ 68F

Evaporation Rate & Reference: 6.0 (N-BUTYL ACETATE=1)

Solubility in Water: 26.3% @ 68F

Appearance and Odor: CLEAR COLORLESS LIQUID.

Percent Volatiles by Volume: 100

Corrosion Rate: NOT PROVIDED

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Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

CAUSTICS, AMINES, ALKANOLAMINES, ALDEHYDES, AMMONIA, STRONG OXIDIZING AGENTS, AND CHLORINATED COMPOUNDS.

Hazardous Decomposition Products: NONE.

===== Toxicological Information =====

Toxicological Information: CHRONIC EFFECTS: THERE IS NO EVIDENCE THAT EXPOSURE TO METHYL ETHYL KETONE (MEK) ALONE CAUSES PROGRESSIVE OR IRREVERSIBLE NEUROTOXIC EFFECTS. HOWEVER, SIMULTANEOUS

OVER-EXPOSURE TO MEK & N-HEXANE. THERE IS NO REPORTED HUMAN EVIDENCE THAT THESE NEUROTOXIC EFFECTS OCCUR WHEN EXPOSURE TO BOTH CHEMICALS IS MAINTAINED BELOW ESTABLISHED OSHA & ACGIH LIMITS. WORKPLACE EXPOSURE GUIDELINES; OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS: A TWA OF 200 PPM (590 MG/M<sup>3</sup>) & A STEL OF 300 PPM (885 MG/M<sup>3</sup>) FOR METHYL ETHYL KETONE (2-BUTANONE).

===== Ecological Information =====

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Ecological: NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SPILL RELEASE SECTION FOR INFORMATION REGARDING ACCIDENTAL RELEASE AND REGULATORY SECTIONS FOR REGULATORY REPORTING INFORMATION.

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

Waste Disposal Methods: CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

ELECTROSTATIC ACCUMULATION HAZARD: NO, BUT USE PROPER BONDING &/OR

GROUND PROCEDURES. LOADING/ UNLOADING TEMP, F: AMBIENT. STORAGE/TRANSPORT PRESSURE, MMHG: ATMOSPHERIC. LOADING/UNLOADING VISCOSITY, CST: 0.5.

===== MSDS Transport Information =====

Transport Information: DEPARTMENT OF TRANSPORTATION (DOT): DOT SHIPPING DESCRIPTION: METHYL ETHYL KETONE, 3, UN 1193, I I.

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

SARA Title III Information: UNDER THE PROVISIONS OF TITLE III, SE

CTIONS

311/312 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: IMMEDIATE HEALTH, DELAYED HEAL TH, FIRE. THIS INFORMATION MAY BE SUBJECT TO THE PROVISIONS OF THE COMMUNITY RIGHT-TO-KNOW REPORTING REQUIREMENTS (40 CFR 370) IF THRESHOLD QUANTITY CRITERIA ARE MET. THIS PRODUCT CONTAINS THE FOLLOWI NG SECTION 313 REPORTABLE INGREDIENTS: METHYL ETHYL KETONE 78-93-3, 100.0% MAXIMUM.

Federal Regulatory Inf

ormation:THIS PRODUCT IS LISTED ON THE TSCA

INVENTORY AT CAS REGISTRY NUMBER 78-93-3. CERCLA: IF THE REPORTABLE QUANTITY OF THIS PRODUCT IS ACCIDENTALLY SPILLED, THE INCIDENT IS SUBJECT TO THE PROVISIONS OF TH E COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA) AND MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER BY CALLING 800-424-8802. THE REPORTABLE QUANTITY OF THIS PRODUCT IS 5,000 POUNDS. THIS PRODUCT CONTAINS: METHYL ETHYL KETONE.

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te Regulatory Information:NOT PROVIDED

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

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.