

EXXON CHEMICAL COMPANY, DIVISI -- METHYL ETHYL KETONE

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MSDS Safety Information
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FSC: 6810
NIIN: 00-281-2762
MSDS Date: 05/08/1999
MSDS Num: CKWJZ
Product ID: METHYL ETHYL KETONE
MFN: 02
Responsible Party
Cage: TO317
Name: EXXON CHEMICAL COMPANY, DIVISION EXXON CORP
Box: 3272
City: HOUSTON TX 77253-3272
Info Phone Number: 281-870-6000\281-870-6884
Emergency Phone Number: 800-726-2015
Resp. Party Other MSDS No.: 92050000

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Item Description Information
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Item Manager: S9G
Item Name: METHYL ETHYL KETONE, TECHNICAL
Specification Number: NONE
Unit of Issue: CN
Quantitative Expression: 00000000005GL
UI Container Qty: 5 GAL
Type of Container: CAN

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

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Health Hazards Data
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Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO

Effects of Exposure: 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 TOXI CITY. INHALATION: VAPOR CONCENTRATIONS ABOVE EXPOSURE LEVELS ARE IRRITATING TO EYES AND RESPIRATORY TRACT, MAY CAUSE HEADACHES AND DIZZINESS, ARE 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 EFFECTS: NO NEUROTOXIC EFFECTS.

Signs And Symptions Of Overexposure: INHALATION: MAY CAUSE HEADACHES AND DIZZINESS, ARE ANESTHETIC.

First Aid: EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNT OF WATER 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, INCLUDIN G 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 ATTEN TION.

INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. KEEP AT REST. GET PROMPT MEDICAL ATTENTION.

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Handling and Disposal
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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).

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.

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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Fire and Explosion Hazard Information
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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 DIRECTLY 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.

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Control Measures
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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
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HCC: F2
NRC/State LIC No: NOT RELEVANT
B.P. Text: 175-177F
Melt/Freeze Pt: <0.C, 32.F
Decomp Text: NOT PROVIDED
Vapor Pres: 82.51 @ 75F
Vapor Density: >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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Reactivity Data
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Stability Indicator: YES
Materials To Avoid: CAUSTICS, AMINES, ALKANOLAMINES, ALDEHYDES, AMMONIA, STRONG OXIDIZING AGENTS, AND CHLORINATED COMPOUNDS.
Hazardous Decomposition Products: NONE.
Hazardous Polymerization Indicator: NO

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Toxicological Information
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Toxicological Information: CHRONIC EFFECTS:THERE IS NO EVIDENCE THAT EXPOSURE TO METHYL ETHYL KETONE (MEK) ALONE CAUSES PROGRESSIVE OR IRREVERSIBLE NEOROTOXIC EFFECTS. HOWEVER, SIMULTANEOUS OVER-EXPOSURE TO MEK & N-HEXANE. THERE IS NO REPORTED HUMAN EVIDENCE THAT TH ESE 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 20 0 PPM (590 MG/M3) & A STEL OF 300 PPM (885 MG/M3) FOR METHYL ETHYL KETONE (2-BUTANONE).

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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.

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

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Regulatory Information
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Sara Title III Information: UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT, THIS PRODUCT

IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: IMMEDIATE HEALTH, DELAYED HEALTH, 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 FOLLOWING SECTION 313 REPORTABLE INGREDIENTS: METHYL ETHYL KETONE 78-93-3, 100.0% MAXIMUM.

Federal Regulatory Information: 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 THE 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.

State Regulatory Information: NOT PROVIDED

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Other Information
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Other Information: LAND SPILL-ELIMINATE IGNITION SOURCES. PREVENT ADDITIONAL DISCHARGES OF MATERIAL, IF POSSIBLE TO DO SO WITHOUT HAZARD. FOR SMALL SPILLS IMPLEMENT CLEANUP PROCEDURES; FOR LARGE SPILLS IMPLEMENT CLEANUP PROCEDURES &, IF IN PUBLIC AREA, KEEP PUBLIC AWAY & ADVISE AUTHORITIES. IF PRODUCT IS SUBJECT TO CERCLA REPORTING (SEE REGULATORY INFORMATION) NOTIFY THE NATIONAL RESPONSE CENTER. PREVENT LIQUID FROM ENTERING SEWERS, WATERCOURSES, LOW AREAS. CONTAIN WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIAL SUCH AS SAWDUST. RECOVER BY PUMPING (EXPLOSION PROOF/HAND PUMP) OR WITH SUITABLE ABSORBENT.

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Transportation Information
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Responsible Party Code: TO317
Trans ID NO: 155482
Product ID: METHYL ETHYL KETONE
MSDS Prepared Date: 05/08/1999
Review Date: 12/04/2000
MFN: 2
Net Unit Weight: 33.7 LBS
Multiple KIT Number: 0
Review IND: Y
Unit Of Issue: CN
Container QTY: 5 GAL
Type Of Container: CAN

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Detail DOT Information
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DOT PSN Code: FWQ
DOT Proper Shipping Name: ETHYL METHYL KETONE OR METHYL ETHYL KETONE
Hazard Class: 3
UN ID Num: UN1193
DOT Packaging Group: II
Label: FLAMMABLE LIQUID
Special Provision: T8
Packaging Exception: 150
Non Bulk Pack: 202
Bulk Pack: 242
Max Qty Pass: 5 L
Max Qty Cargo: 60 L

Vessel Stow Req: B

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Detail IMO Information
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IMO PSN Code: GZJ
IMO Proper Shipping Name: ETHYL METHYL KETONE
IMDG Page Number: 3226
UN Number: 1193
UN Hazard Class: 3.2
IMO Packaging Group: II
Subsidiary Risk Label: -
EMS Number: 3-06
MED First Aid Guide NUM: 300

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Detail IATA Information
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IATA PSN Code: LNF
IATA UN ID Num: 1193
IATA Proper Shipping Name: ETHYL METHYL KETONE
IATA UN Class: 3
IATA Label: FLAMMABLE LIQUID
UN Packing Group: II
Packing Note Passenger: 305
Max Quant Pass: 5L
Max Quant Cargo: 60L
Packaging Note Cargo: 307

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Detail AFI Information
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AFI PSN Code: LNF
AFI Proper Shipping Name: ETHYL METHYL KETONE OR METHYL ETHYL KETONE
AFI Hazard Class: 3
AFI UN ID NUM: UN1193
AFI Packing Group: II
Special Provisions: P5
Back Pack Reference: A7.3

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HAZCOM Label
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Product ID: METHYL ETHYL KETONE
Cage: TO317
Assigned IND: Y
Company Name: EXXON CHEMICAL COMPANY, DIVISION EXXON CORP
PO Box: 3272
City: HOUSTON TX
Zipcode: 77253-3272
Health Emergency Phone: 800-726-2015
Label Required IND: Y
Date Of Label Review: 12/04/2000
Status Code: A
Year Procured: 2000
Origination Code: F
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: DANGER
Respiratory Protection IND: YES

Health Hazard: Moderate
Contact Hazard: Slight
Fire Hazard: Severe
Reactivity Hazard: None

Hazard And Precautions: 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, ARE 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 EFFECTS: NO NEUROTOXIC EFFECTS.

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