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EXXON CHEMICAL CO DIV OF EXXON CHEMICAL AMERICAS -- METHYL ETHYL KETONE - 6810-00-281-2785

Product ID:METHYL ETHYL KETONE MSDS Date:05/08/1999 FSC:6810 NIIN:00-281-2785 **MSDS Number: BHCFW** === Responsible Party === Company Name: EXXON CHEMICAL CO DIV OF EXXON CHEMICAL AMERICAS Box:3272 **City:HOUSTON** State:TX ZIP:77001 Country:US Info Phone Num:713-870-6000 Emergen cy Phone Num:800-726-2015/800-424-9300 CHEMTREC Resp. Party Other MSDS Num.:92050000 Chemtrec Ind/Phone:(800)424-9300 CAGE:4H542 === 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:SP0450-95-D-4042 CAGE:4N760 Company Name: EXXON CHEMICAL CO USA SALES OFFICE Address:1333 W LOOP S Box:3272 City:HOUSTON State:TX ZIP:77253 Country:US Phone:281-870-6000/6884 С

AGE:4H542 Company Name: EXXONMOBIL CHEMICAL CO, DIV OF EXXON MOBILCORP. Address:13501 KATY FWY Box:3272 **City:HOUSTON** State:TX ZIP:77253-3272 Country:US Phone:281-870-6000 / 800-726-2015 CAGE:72190 Company Name: STARTEX CHEMICAL INC Address:5 HACKBERRY LANE Box:3087 City:CONROE State:TX ZIP:77305 Country:US Phone:409-539-6244 CAGE:0YFV5

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA 313) (CERCLA) CAS:78-93-3 RTECS #:EL 6475000 = Wt:100. Other REC Limits:NONE SPECIFIED OSHA PEL:200 PPM ACGIH TLV:200 PPM/300STEL;9596 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 2737 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYE: SEVERELY IRRITATING. MAY INJURE EYE TISSUE, WHICH MAY RESULT IN PERMANENT DAMAGE. SKIN: FR EQUENT OR

PROLONGED CONTACT MAY IRRITATE & CAUSE DERMATITIS. LOW ORDER OF TOXICITY. INHALATION: VAPOR CON CENTRATIONS ABOVE RECOMMENDED EXPOSURE LEVELS ARE IRRITATING TO EYES & RESPIRATORY TRACT, MAY CAUSE HEADACHES & DIZZINESS, ARE ANESTHETIC & MAY HAVE OTHER CENTRAL NERVOUS SYSTEM EFFECTS. LOW ORDER OF TOXICITY. INGESTION: LOW ORDER OF TOXICITY. SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE RESPIRATORY SYSTEM DURING INGESTION OR VOMITING MAY CAUSE BRONCHIOPNEUMONI

A OR PULMONARY EDEMA. CHRONIC-SEE TOXIC OLOGIAL SECTION.

Explanation of Carcinogenicity:METHYL ETHYL KETONE IS NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:EYES: IRRITATION. SKIN: IRRITATION, DERMATITIS. INHALED: IRRITATION, HEADACHES, DIZZINESS, ANESTHETIC, OTHER CNS EFFECTS.

Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY MANUFACTURER.

First Aid:EYE CONTACT: IMMEDIATELY

FLUSH EYES WITH LARGE AMOUNTS OF

WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION. SKIN CONTACT: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER; USE SOAP IF AVAILABL E. REMOVE CONTAMINATED CLOTHING, INCLUDING SHOES, AFTER FLUSHING HAS BEGUN. INHALATION: USING PROPER RESPIRATORY PROTECTION, IMMEDICATELY REMOVE THE AFFECTED VICTIM FROM EXPOSURE. ADMINISTER ARTIFICIA L RESPIRATION IF BREATHING IS STOPPED. KEEP AT REST. CALL FOR PROMPT MEDICAL ATTENTION. INGEST ION: IF SWALLOWED.

DO NOT INDUCE VOMITING. KEEP AT REST. GET PROMPT MEDICAL ATTENTION.

Flash Point Method:TCC Flash Point:=-3.7C, 25.F Autoignition Temp:=460.C, 860.F Lower Limits:1.8 Upper Limits:11.5 Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL FOAM. WATER MAY BE INEFFECTIVE, BUT SHOULD BE USED TO COOL FIRE-EXPOSED CONTAINERS Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPR OVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:CONTAINERS MAY BURST DUE TO HEAT OF FIRE. SHUT OFF "FUEL" TO FIRE. IF A LEAK HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS. COVER SPILLS WITH FOAM.

Spill Release Procedures: ELIMINATE SOURCES OF IGNITION. STOP LEAK IF POSSIBLE TO DO WITHOUT HAZARD. KEEP PUBLIC AWAY AND ADVIS E

AUTHORITIES. PREVENT LIQUID FROM ENTERING SEWERS, WATER COURSES OR LOW AREAS. CONTAIN LIQUID WITH SAND OR EARTH. RECOVER WITH EXPLOSION-PROOF PUMP OR WITH ABSORBENT. CONSULT EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: KEEP CONTAINER CLOSED. HANDLE AND OPEN CONTAINERS W

ITH CARE. STORE IN A COOL, WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. DO NOT HANDLE OR STORE NEAR OPEN FLAME, HEAT OR OTHER SOURCES OF I GNITION. PROTECT MATERIAL FROM DIRECT SUNLIGHT. USE PROPER BONDING/GROUNDING PROCEDURES. Other Precautions:DO NOT PRESSURIZE, CUT, HEAT OR WELD CONTAINERS. EMPTY PRODUCT CONTAINERS MAY CONTAIN PRODUCT RESIDUE. DO NOT REUSE EMPTY CONTAINERS WITHOUT COMMERCIAL CLEANING OR RECONDITIONING.

======= Exposure Controls/Personal

Protection ==========

Respiratory Protection:WHERE CONCENTRATIONS IN AIR MAY EXCEED THE LIMITS GIVEN IN THIS SECTION (TWA = 200 PPM, STEL = 885 MG/M3) AND ENGINEERING, WORK PRACTICE OR OTHER MEANS OF EXPOSURE REDUCTION ARE NOT ADEQUATE, NIOSH/MS HA APPROVED RESPIRATORS MAY BE NECESSARY TO PREVENT OVEREXPOSURE BY INHALATION.

Ventilation: MECHANICAL DILUTION VENTILATION IS RECOMMENDED WHENEVER THIS PRODUCT IS USED IN A CONFINED SPACE, IS HEATED ABOVEE AMBIENT TEMPERATUR ES OR IS AGITATED.

Protective Gloves: CHEMICAL RESISTENT GLOVES. DLA-HMIS: BUTYL RUBBER OR PVA

Eye Protection: CHEMICAL GOGGLES AND/OR FACE SHIELD.

Other Protective Equipment:FOR OPEN SYSTEMS WHERE CONTACT IS LIKELY, WEAR LONG SLEEVES, CHEMICAL RESISTENT GLOVES AND CHEMICAL GOGGLES. Work Hygienic Practices:NO DATA PROVIDED BY MANUFACTURER. DLA-HMIS: USE GOOD PERSONAL HYGIENE PRACTICES. LAUNDER CONTAMINATED CLOTHING BEFORE WEARING. Supplemental Safety and Health VENTILATION: USE EXP

LOSION-PROOF VENTILATION EQUIPMENT.

HCC:F2 Boiling Pt:=79.4C, 175.F B.P. Text:175F-177F Melt/Freeze Pt:1 Spec Gravity:0.81 @ 68 F Evaporation Rate & amp; Reference:6.0 (N-BUTYL ACETATE = 1) Solubility in Water:APPRECIABLE Appearance and Odor:CLEAR COLORLESS LIQUID WITH CHARACTERISTIC ODOR.

Stability Indicator/Materials to Avoid:YES CAUSTICS, AMINES, ALKANOLA MINES, ALDEHYDES, AMMONIA, STRONG OXIDIZING AGENTS, AND CHLORINATED COMPOUNDS. Stability Condition to Avoid:NOT APPLICABLE. Hazardous Decomposition Products:NONE.

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 AND N-HEXANE CA N POTENTIATE THE KNOWN IRREVERSIBLE NEUROTOXIC EFFECTS OF N-HEXANE. THERE IS NO REPORTED HUMAN EVIDENCE THAT THESE NEUROTOXIC EFFECTS OCCUR WHEN EXPOSURE TO BOTH CHEMICALS IS MAINTAINED BELOW ESTABLIS HED OSHA AND ACGIH LIMITS.

Ecological:NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SPILL SECTION FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SARA/FEDERAL REGULATORY SECTION FOR REGULATORY

REPORTING INF ORMATION.

Waste Disposal Methods:CONSULT EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS. DLA-HMIS: EPA/RCRA WASTE NUMBERS D001 (IGNITABLE) AND U159 (METHYL ETHYL KETONE) MAY APPLY TO UNUS ED/UNCONTAMINATED PRODUCT.

Transport Information:DOT SHIPPING DESCRIPTION: METHYL ETHYL KETONE, 3, UN1193, II.

SARA Title III Information:ENVIRONMENTAL DATA: UNDER PROVISIONS OF TITLE III, SECTIONS 311/312 OF SARA PRODUCT IS CLASSIFIED INTO FOLLOWING HAZARD CATEGORIES: IMMEDIATE AND DELAYED HEALTH, FIRE. THIS INFORMATION MAY BE SUBJECT TO THE PROVISIONS OF THE COMMUNITY RIGHT TO KNOW REPORTING REQUIREMENTS IF THRESHOLD CRITERIA ARE MET. THIS PRODUCT CONTAINS THE FOLLOWING SECTION 313 REPORTABLE

INGREDINETS: METHYL ETHYL KETONE, CAS # 78-93-3, 100%. Federal Regulatory Information:CERCLA-IF MORE THAN REPORTABLE QUANTITY SPILLED, INCIDENT IS SUBJECT TO PROVISIONS OF CERCLA, CALL NATIONAL RESPONSE CENTER AT 800-424-8802, RQ=5000 POUNDS; TSCA-THIS PRODUCT IS LISTED ON THE TSCA INV ENTORY AT CAS REGISTRY NUMBER 78-93-3. State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER.

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