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SHELL OIL COMPANY -- METHYL ISOBUTYL KETONE -- 6810-00-286-3785

Product ID:METHYL ISOBUTYL KETONE MSDS Date:11/04/1991 FSC:6810 NIIN:00-286-3785 MSDS Number: BDTVB === Responsible Party === Company Name: SHELL OIL COMPANY Address: HEALTH, SAFETY AND ENVIRONMENT Box:4320 **City:HOUSTON** State:TX ZIP:77210 Country:US Info Phone Num:713-241-4819 **Emergency Phone Num:713-4** 73-9461/800-424-9300(CHEMTREC) Preparer's Name: J. C. WILLETT CAGE:54527 === Contractor Identification === Company Name: HOC INDUSTRIES, INC Address:3511 N. OHIO Box:2609 City:WICHITA State:KS ZIP:67219 Country:US Phone:316-838-4663 CAGE:0A9L8 Company Name: PHIPPS PRODUCTS CORP Address:186 LINCOLN ST SUITE 502 Box:City:BOSTON State:MA ZIP:02111-2403 Country:US Phone:OUT OF BUSINESS CAGE:86511 Company Name: SHELL OIL COMPANY Address:Box:2463 City:HOUSTON State:TX ZIP:77210 Country:US Phone:800-231-69

50 CAGE:54527 Ingred Name: METHYL ISOBUTYL KETONE (SARA III) CAS:108-10-1 RTECS #:SA9275000 Fraction by Wt: 100% OSHA PEL:100 PPM/75 STEL ACGIH TLV:50 PPM/75 STEL; 9293 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS LD50 LC50 Mixture: TLV 50 PPM Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Haza rds Acute and Chronic:ACUTE- EYE:CAN CAUSE SEVERE **IRRITATION. SKIN: PROLONGED/REPEATED CONTACT CAN IRRITATE & CAUSE** DRYING & DERMATITIS. INHALE: VAPORS ARE TOXIC & MAY CAUSE RESPIRATORY TRACT IRRITATION, CNS DEPRESSION. ORAL :TOXIC. MAY CAUSE CNS DEPRESSION & UPPERDIGESTIVE TRACT IRRITATION. CHRONIC-MAY CAUSE DERMATITIS. Explanation of Carcinogenicity: THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP, IARC OR OSHA. Effects of Overexposure:SEVERE EYE IRRITATION, TEARING, SKIN IRRITATION, DEFATING, DERMATITIS, RESPIRATORY TRACT IRRITATION, HEADACHE, DIZZINESS, WEAKNESS, GIDDINESS, FATIGUE, GASTROINTESTINAL TRACT IRRITATION, NAUSEA, VOMIT ING, DIARRHEA, UNCONSCIOUSNESS AND **EVENDEATH** Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING DISEASES INVOLVING THE EYES, SKIN, LUNGS OR CNS MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:GET M

EDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN:FLUSH WITH WATER WHILE REMOVING CONTAMINATED CLOTHING. EYE:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:IF CONSCIOUS,DRINK 2 GLASSES OF WATER & INDUCE VOMITING. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. CALL PHYSICIAN.

Flash Point Method:TCC Flash Point:60.0F,15.6C Lower Limits:1.4 Upp er Limits:7.5 Extinguishing Media:DRY CHEMICAL, CO2, WATER FOG, ALCOHOL FOAM. WATER MAY BE INEFFECTIVE, BUT SHOULD BE USED TO COOL FIRE-EXPOSED CONTAINERS Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUP

TURE DUE TO VAPOR PRESSURE BUILDUP.

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. CONTAIN SPILL. PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT MATERIAL SUCH AS SAND. PLACE IN CONTAINER FOR DISPOSAL. PREVENT LIQ UID FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS.

Neutralizing Agent:NOT RELEVANT

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA AWAY FROM SPARKS, SOURCES OF IGNITION AND OXIDIZERS. BOND AND GROUND CONTAINERS WHEN TRANSFERRING LIQUID.
Other Precautions:"EMPTY" CONTAINERS MAY RETAIN RESIDUE AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS. THEY MAY

EXPLODE AND CAUSE INJUR Y/DEATH. KEEP OUT OF REACH OF CHILDREN.

======= Exposure Controls/Persona

| Protection =========

Respiratory Protection: IF ENGINEERING CONTROLS ARE INADEQUATE TO MAINATIN VAPOR CONCENTRATIONS BELOW TLV, A NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR SHOULD BE WORN. Ventilation: MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S). Protective Gloves: BUTYL RUBBER OR PVA RECOMMENDED Eye Protection: SAFETY GLASSES - CHEMICAL SPLASH GOGGLES Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER. INDU STRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED. Work Hygienic Practices: USE GOOD PERSONAL HYGIENE PRACTICES. LAUNDER CONTAMINATED CLOTHING BEFORE WEARING. FLUSH SPILL AREA WITH WATER SPRAY. Supplemental Safety and Health AVOID PROLONGED/REPEATED EXPOSURE. DO NOT GET ON SKIN/IN EYES. DO NOT BREATHE VAPORS. DO NOT INGEST. NOTE TO PHYSICIAN: IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15 CC (1 TABLESPOON) SYRUP OF IPECAC. IF CONVULSION/UNCONSCIOUSNESS OCCURS BE FORE EMEMSIS, GASTRIC LAVAGE USING INTUBATION SHOULD BE DONE. HCC:F2 Boiling Pt:B.P. Text:241F,116C Melt/Freeze Pt:M.P/F.P Text:-118F,-83C Decomp Temp:Decomp Text:NOT KNOWN Vapor Pres:14.5 @ 68F Vapor Density:3.5

Spec Gravity:0.81

Evaporation Rate & amp; Reference:1.6 (N-BUTYL ACETATE = 1)

Solubility in Water:MODERATE

Appearance and Odor:COLORLESS, MOBILE LIQUID WITH PLEASANT ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND OTHER UNIDENTIFIED HYDROCARBONS

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RE

GULATIONS.

RECOMMENDED PROCEDURE IS BY INCINERATION.

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