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HOECHEST CELANSES CHEMICAL GROUP IND -- 26200004, METHYL ISOBUTYL KETONE - 6810-00-281-2761

Product ID:26200004, METHYL ISOBUTYL KETONE MSDS Date:02/23/2000 FSC:6810 NIIN:00-281-2761 Status Code:A MSDS Number: CKXQT === Responsible Party === Company Name: HOECHEST CELANSES CHEMICAL GROUP IND Address:1601 W LBJ FWY Box:819005 City:DALLAS State:TX ZIP:75381-9005 С ountry:US Info Phone Num:214-277-4000/972-443-4000 Emergency Phone Num: (800) 424-9300 Resp. Party Other MSDS Num .: #64 Chemtrec Ind/Phone:(800)424-9300 CAGE:0XRB0 === Contractor Identification === Company Name: HOECHST CELANESE CHEMICAL GROUP INC Address:1601 W LBJ FWY Box:819005 City:DALLAS State:TX ZIP:75381-9005 Country:US Phone:214-277-8575 CAGE:0XRB0 Company Name:SDB CONSULTANTS LTD Address:401 WHITNEY AVE SUITE 120 Box:City:GRETNA State:LA ZIP:70056 Country:US Phone:504-366-9105 Contract Num:

SP0450-01-M-D520 CAGE:0PGK2

Ingred Name: METHYL ISOBUTYL KETONE. SYNONYMS: ISOBUTYL METHYL KETONE, ISOPROPYL ACETONE, 2-METHYL-4-PENTANONE, 4-METHYL-2-PENTANONE. CAS:108-10-1 RTECS #:SA9275000 = Wt:99. OSHA PEL:410 MG/M3:100 PPM ACGIH TLV:205 MG/M3:50 PPM ACGIH STEL:307 MG/M3;75 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS LD50 LC50 Mixture:ORAL LD50(R AT): 2.1-4.6 G/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Health Hazards Acute and Chronic:SKIN: REPEATED OR PROLONGED CONTACT MAY CAUSE DRYING OF THE SKIN AND DERMATITIS. EYES: VAPOR AND LIQUID ARE MODERATELY IRRITATING TO THE EYES. INHALATION: VAPORS CAN CAUSE IRRITATION OR THE RESPIRATOR Y TRACT. HIGH CONCENTRATIONS CAN CAUSE HEADACHE, NAUSEA, WEAKNESS, LIGHTHEADEDNESS AND STUPOR (CNS DEPRESSION). DELAYED/LONG TERM EFFECTS: PROLONGED EXPOSURE TO HIGH С ONCENTRATION CAN CAUSE CENTRAL NE UROLOGICAL DEPRESSION AND EEG ABNORMALITIES. Effects of Overexposure: ACCIDENTAL EXPOSURE HAS BEEN REPORTED TO CAUSE DEPRESSION OF THE CENTRAL NERVOUS SYSTEM AND GASTROINTESTINAL DISTURBANCES. SYMPTOMS MAY INCLUDE: ABDOMINAL PAIN, HEADACHE DIZZINESS, WEAKNESS, AUSEA, VO MITING, LOSS OF COORDINATION AND UNCONSCIOUSNESS. Medical Cond Aggravated by Exposure:SIGNIFICANT EXPOSURE TO THIS CHEMICAL MAY ADVERSELY AFFECT PEROPLE WITH CHRONIC DISEAS E OF THE CENTRAL NERVOUS SYSTEM. First Aid:SKIN: REMOVE CONTAMINATED CLOTHING AND WASH CONTAMINATED SKIN

WITH LARGE AMOUNTS OF SOAP AND WATER. IF IRRITATION PERSISTS CONTACT A PHYSICIAN. EYES: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. CON TACT A PHYSICIAN IMMEDIATELY. INHALATION: REMOVE PATIENT FROM CONTAMINATED AREA. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION, THEN OXYGEN IF NEEDED. CA NTACT A PHYSICIAN IMMEDIATELY. INGESTIO N: PATIENT SHOULD BE MADE TO DRINK LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. CONTACT A PHYSICIAN IMMEDIATELY.

Flash Point Method:CC Flash Point:=15.6C. 60.1F Lower Limits:1.2 **Upper Limits:8** Extinguishing Media: USE AQUEOUS FILM FORMING FOAM FOR LARGE FIRES. USE CO2 OR DRY CHEMICAL FOR SMALL FIRES. WATER MAY BE INEFFECTIVE BUT SHOULD BE USED TO COOL FIRE EXPOS ED STRUCTRUES & VESSELS. Fire Fighting Procedures:WATER SPRAY CAN BE USED RO REDUCE THE INTENSITY OF FLAMES & TO DILUTE SPILLS TO NONFLAMMABLE MIX. IF EXPOSED TO VAPORS/PRODUCTS OF COMBUSTION, WEAR FULL FIRE-FIGHTING TURNOUT GEAR & SELF CONTAINED BRE ATHING APPARATUS WITH FULL FACEPIECE IN POSITIVE PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE. Unusual Fire/Explosion Hazard: KEEP PERSONNEL REMOVED FROM & UPWIND OF FIRE. OXIDIZING CHEMICALS MAY ACCLERATE THE BURNING RATE **IN A FIRE** SITUATION. \*VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGN ITION AND FLASH BACK. MATERIAL CREATES A SPECIAL HAZARD BECAUSE IT FLOATS ON WATER.

Spill Release Procedures: ELIMINATE IGNITION SOURCES. CONTAINS SPILL WITH DIKES OF SOIL OR NON-COMBUSTIBLE ABSORBENT TO MINIMIZE CONTAMINATED AREA. IF FIRE POTENTIAL EXISTS, BLANKET SPILL WITH ALCOHOL-TYPE AQUEOUS FULM-FORMING FOAM. AVOID RUN-OFF INTO STORM SEWERS & DITCHES LEADING TO WATERWAYS. IF REQUIRED, NOTIFY STATE & LOCAL AUTHORITIES. PLACE LEAKING CONTAINER IN WELL-VENTILATED AREA.

\*SEE OTHER INFO.

Handling and Storage Precautions:HANDLING- KEEP CONTAINERS CLOSED WHEN NOT IN USE. ALWAYS OPEN CONTAINERS SLOWLY TO ALLOW ANY EXCESS PRESSURE TO VENT. STORAGE-KEEP ALL CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. ST ORE OUT OF DIRECT SU NLIGHT & ON AN IMPERMEABLE FLOOR. DO NOT STORE WITH INCOMPATIBLE MATERIALS. Other Precautions:HANDLING-ELECTRICAL EQUIPMENT & CIRCUITS IN ALL STORAGE & HANDLING AREAS MUST CONFORM TO REQUIREMENTS OF NATIONAL ELECTRICAL CODE (ARTICLE 500 & 501) FOR HAZARDOUS LOCATION. THIS PRODUCT MAY GENERATE A STATIC CHARGE. GROUND/BOND EQUIPMENT WHEN TRANSFERRING MATERIAL TO PREVENT STATIC ACCUMULATION. ===== Exposure Controls/Personal Protection ====== Respiratory Protection:BASED ON WORKPLACE CONTAMINATE LEVE & WORKING LIMITS OF THE RESPIRATOR, USE A RESPIRATOR APPROVED BY NIOSH/MSHA. THE FOLLOWING IS THE MINIMUM RECOMMENDED EQUIPMENT FOR AN ACCEPTABLE LEVEL OF EXPOSURE. FOR ESCAPE: USE SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OR ANY RESPIRATOR

SPECIFICALLY APPROVED FOR ESCAPE.

Ventilation:LOCAL VENTILATION IS USUALLY PREFERRED. USE WITH ADEQUATE VENTILATION.

Protective Gloves: IMPERVIOUS GLOVES: THE

RECOMMENDED MATERIAL OF

CONSTRUCTION IS:NITRILE RUBBER.

Eye Protection:WEAR CHEMICAL GOGGLES WHEN THERE IS A REASONABLE CHANCE OF EYE CONTACT.

Other Protective Equipment:WEAR IMPERVOUS CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT. THE RECOMMENDED MATERIAL OF CONSTRUCTION IS: NITRILE RUBBER.

Work Hygienic Practices:WASH THOROUGHLY WITH SOAP/ WATER AFTER HANDLING. DECONTAMINATE SOILED CLOTHES THOROUGHLY BEFORE RESUE. DESTROY CONTAMINATED LEATHER CLOTHING. AVOID BREATHI NG VAPOR &

CONTACT WITH EYES, SKIN, CLOTHES.

Supplemental Safety and Health

ENGINEERING-GENERAL OR DILUTION VENTILATION IS FREQUENTLY INSUFFICIENT AS THE SOLE MEANS OF CONTROLLING EMPLOYEE EZPOSURE. LOCAL VENTILATION IS USUALLY PREFERRED. EXPLOSION-PROOF EQUIPMENT (FOR EXAMPL E, FANS, SWITCHES, GROUNDED DUCTS) SHOULD BE USED IN MECHANICAL VENTILATION SYSTEMS.

HCC:F2 Boiling Pt:=116.C, 240.8F Melt/Freeze Pt: =-50.C, -58.F Vapor Pres:14.9 MMHG Vapor Density:3.46 Spec Gravity:0.801 Evaporation Rate & amp; Reference:1.54 (N-BUAC=1) Solubility in Water:1.95 PER BY WT @ 20 C Appearance and Odor:COLORLESS LIQUID, FAINT KETONIC AND CAMPHOR ODOR. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES
KEEP AWAY FROM CAUSTIC SODA & OTHER STRONG ALKALIS, HYDROCHLORIC, SULFURIC & OTHER STRONG INORGANIC ACIDS, AMINES, &
OXIDIZING AGENTS
SUCH AS PEROXIDES, NITRIC ACID, PERCHLORIC ACID, CHROMIC ACID, CHROMIUM TRIOXIDE, COPPER
Stability Condition to Avoid:HEAT, SPARKS, FLAME.
Hazardous Decomposition Products:CARBON MONOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

Toxicological Information:ORAL LD50-2.1-4.6 G/KG(RATS); SLIGHTLY TOXIC TO ANIMALS. DERMAL LD50:>20 ML/KG (RABBITS); PRACTICALLY NON-TOXIC TO ANIMALS & ESSENTI

ALLY NON-IRRITATING TO RABBITS. INHALATION LC50:>3000 PPM (RATS, 6 H R): SLIGHTLY TOXIC TO ANIMALS BASED ONLACK OF MORTALITY IN A REPEATED EXPOSURE STUDY AT THIS CONCENTRATION. EYE CONTACT: VAPOR & LIQUID ARE MODERATELY IRRITATING TO THE EYES. MUTAGENICITY: NOT MUTAGEN IC IN MOST IN VITRO AND IN VIVO TESTS. REPRODUCTION: DEVELOPMENTAL TOXICITY WAS OBSERVED IN RODENTS REPEATEDLY TO A VAPOR CONCENTRATION WHICH WAS MATERNALLY TOXIC (3000PPM). SIGNIFICANT EFFECTS WERE N O T SEEN AT

300 OR 1000PPM.

Ecological:ECOTOXICITY: METHYL ISOBUTYL KETONE EXHIBITS LOW ACUTE TOXICITY TO AQUATIC SPECIES. THE 96-HOUR LC50 FOR THE FATHEAD MINNOW IS 505-540PPM. THE 24-HR LC50 VALUES FOR GOLDFISH & BRINE SHRIMP ARE 360-460 & 1230PPM, RESPECTIVELY. THE 48-HR LC50 VALUE FOR THE CLAWED TOAD (XENOPUS LAEVIS) IS 656PPM. THE 24-HR EC50 FOR THE WATER FLEA (DAPHNID) IS 474-3682PPM. THE TOXICITY THRESHOLD FOR GREEN ALGAE, EUGLE NOID & BLUE-GREEN ALGAE ARE 725, 447 & 136PPM, RESPECTIVELY. BIOACCUMULATION: THE ESTIMATED LOG OCTANOL/WATER PARTITION COEFFICIENT FOR METHYL ISOBUTYL KETONE IS 1.19. THIS SUGGESTS A LOW POTENTIAL TO BIOCONCENTRATE IN AQUATIC ORGANISMS.

Waste Disposal Methods:DISPOSE OF SPILLED MATERIAL IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS FOR HAZARDOUS WASTE. RECOMMENDED MET

HODS ARE INCINERATION OR BIOLOGICAL TREATMENT AT A FEDERALLY OR STATE-PERMITTED DISPOSAL FACILITY. NOTE THAT THIS INFORMATION APPLIES TO THE MATERIALS AS MANUFACTURED.

Transport Information:SHIPPINH NAME: METHYL ISOBUTYL KETONE. HAZRD CLASS: 3, FLAMMABLE LQIUID. UNITED NATIONS NO.: UN1245. PACKING GROUP: II. NORT AMERICA ER GUIDE: 127. DOT REPORTABLE QUANTITY (RQ): 5000 LB/2270 KG.

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

SARA Title III Information:SARA 304, METHYL ISOBUTYL KETONE 99% (108-10-1). SARA 311, ACUTE HEALTH-NO, CHRONIC HEALTH-NO, FIRE-YES, SUDDEN RELEASE OF PRESSURE-NO, REACTIVE-NO.

- Federal Regulatory Information:METHYL ISOBUTYL KETONE\* OSHA HAZARDOUS ACCORDING TO 29 CFR 1910.1200. EPA HAZARDOUS WASTE CODE(S): U161. WE CERTIFY THAT ALL COMPONENTS ARE EITHER ON THE TSCA INVENTORY OR QUALIFY FRO AN EXEMPTION. TS CA 12B. THE FOLLOWING AR
- E LISTED:

METHYL ISOBUTYL KETONE 99% (108-10-1). ENVIRONMENTAL: CERCLA, METHYL ISOBUTYL KETONE 99% (108-10-1).

State Regulatory Information: THE FOLLOWING CHEMICALS ASSOCIATED WITH THE PRODUCT ARE SUBJECT TO THE RIGHT-TO-KNOW REGULATIONS IN THESE STATES: METHYL ISOBUTYL KETONE (108-10-1): CT, FL, IL, MA, NJ, NY, PA, RI.

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ided 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.