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EASTMAN CHEM PRODUCTS A SUB OF EASTMAN KODAK CO -- EASTMAN MPK (METHYL PROPYL KETONE) -- 6810-01-459-1994

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

Product ID:EASTMAN MPK (METHYL PROPYL KETONE)
MSDS Date:01/20/1999
FSC:6810
NIIN:01-459-1994
MSDS Number: CJKXV
=== Responsible Party ===
Company Name:EASTMAN CHEM PRODUCTS A SUB OF EASTMAN KODAK CO
Address:WILCOX DR AND LINCOLN ST
Box:431
City:KINGSPORT
Sta
te:TN
ZIP:37662
Country:US
Info Phone Num:615-229-6094/2000
Emergency Phone Num:1-800-EASTMAN
Resp. Party Other MSDS Num.:100000451/F/USA
Preparer's Name:EASTMAN PRODUCT SAFETY/ST
Chemtrec Ind/Phone:(800)424-9300
CAGE:74364
=== 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:SP0450-99-MNC49
CAGE:4N760
Company Name:EASTMAN CHEM PRODUCTS A SUB OF EASTMAN K
ODAK CO
Address:EASTMAN ROAD
Box:City:KINGSPORT
State:TN
ZIP:37662
Country:US
Phone:423-229-2000
CAGE:74364
Company Name:INDUSTRIAL CHEMICAL COMMODITIES INC
Address:15944 DERWOOD RD
Box:City:ROCKVILLE
State:MD
ZIP:20855
Country:US
Phone:800-284-5279
Contract Num:SP0450-00-M-SB90
CAGE:1ELU0

========== Composition/Information on Ingredients ==========

Ingred Name:METHYL PROPYL KETONE

A STEL:250 PPM
ACGIH TLV:705 MG/M3;200 PPM
ACGIH STEL:881 MG/M3;250 PPM

Ingred Name:METHYL ISOBUTYL KETONE
CAS:108-10-1
RTECS #:SA9275000
= Wt:5.5
Other REC Limits:NONE RECOMMENDED
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

========== Hazards Identification ==========

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Explanation of Carcinogenicity:NOT LISTED.
Effects of Overexposure:INH
ALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE
DROWSINESS AND IRRITATION. EYE: HIGH VAPOR CONCENTRATIONS MAY CAUSE IRRITATION. SKIN: EXPECTED TO BE A LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HAN DLING BY TRAINED PERSONNEL. INGESTION: EXPECTED TO BE A LOW INGESTION HAZARD.

========== First Aid Measures ==========

First Aid:INHALATION: MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: IN CASE OF IRRITATIO
N
FROM AIRBORNE EXPOSURE, MOVE TO FRESH AIR. IF EASY TO DO, REMOVE CONTACT LE NSES. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. INGESTION: SEEK MEDICAL ADVICE.

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

Flash Point Method:TCC
Flash Point:=8.C, 46.4F
Autoignition Temp:=448.C, 838.4F
Lower Limits:(93F):1.56%
Upper Limits:(144F):8.7%
Extinguishing Media:WATER SPRAY, DRY CHEMICAL, CARB

ON DIOXIDE (CO2),
ALCOHOL FOAM.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL. WATER MAY BE INEFFECTIVE IN FIGHTING THE FIRE.
Unusual Fire/Explosion Hazard:FLAMMABLE. VAPORS MAY CAUSE A FLASH FIRE OR IGNITE EXPLOSIVELY. VAPORS MAY TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. PREVENT BUILDUP OF VAPORS OR GASES TO EXPLOSIVE CONCENTR ATIONS. MAY FORM PEROX
IDES OF UNKNOWN
STABILITY.

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

Spill Release Procedures:USE PERSONAL PROTECTIVE EQUIPMENT. ELIMINATESE ALL IGNITION SOURCES. ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL, THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. FOR LARGE SPILLS: USE WATER SP RAY TO DISPERSE VAPORS AND DILUTE SPILL TO A NONFLAMMABLE MIXTURE. PREVENT RUNOFF FROM ENTERING DRAINS, SEWERS, OR STREAMS.

========== Handl
ing and Storage ==========

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. KEEP CONTAINER IN A WELL-VENTILATED PLACE. STORE AWAY FROM HEAT AND LIGHT.

========== Exposure Controls/Personal Protection ==========

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS, AN APPROVED RESPIRATOR MUST BE WORN: ORGANIC VAPOR. IF RESPIRATORS ARE USED, A PROGRAM SHOULD BE INST ITUTED
TO ASSURE COMPLIANCE WITH OSHA
STANDARD 63 FR 1152, JAN 8, 1998.
Ventilation:GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS.
Protective Gloves:IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO MINIMIZE SKIN CONTACT.
Eye Protection:IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO MINIMIZE EYE CONTACT.
Other Protective Equipment:EYE BATH, WASHING FACILITIES.
Supplemental Safety and Health
PRODUCT ID NUMBER: S

PC 19010. **VENTILATION: USE PROCESS ENCLOSURES,
LOCAL EXHAUST, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

========== Physical/Chemical Properties ==========

HCC:F2
Boiling Pt:=100.6C, 213.F
Melt/Freeze Pt:=-77.8C, -108.F
Vapor Pres:AT20C (68F)37BAR(27.8MMHG
Vapor Density:(AIR=1)2.9
Spec Gravity:AT 20C (68F)(H20=1):0.81
Evaporation Rate & Reference:(N-BUTYL ACETATE=1):2.3
Solubility in Water:MODERATE
Appearance and
Odor:COLORLESS LIQUID - KETONE ODOR.
Percent Volatiles by Volume:100

========== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES
MATERIAL CAN REACT VIOLENTLY WITH STRONG BASES, STRONG OXIDIZING AGENTS, STRONG REDUCING AGENTS.
Stability Condition to Avoid:STABILITY: NORMALLY STABLE; HOWEVER, ON LONG TERM STORAGE, MATERIALS CONTAINING SIMILAR FUNCTIONAL GROUPS FORM PEROXIDES OF UNKNOWN STABILITY.
Hazardous Decomposition Products:CAR
BON DIOXIDE, CARBON MONOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:EFFECTS OF EXPOSURE: GENERAL: BASED ON ANIMAL DATA & STRUCTURE-ACTIVITY RELATIONSHIP, THIS PEODUCT IS NOT EXPECTED TO CAUSE CENTRAL NERVOUS SYSTEM DAMAGE. ACUTE TOXICITY DATA: DATA FOR METHYL PROPYL K RTONE: ORAL LD-50(RAT): 3.73 G/KG. INHALATION LC-50 (RAT): >2000 PPM/4 HOURS. DERMAL LD-50 (RABBIT): 8

ML/KG. SUBCHRONIC TOXICITY DATA FOR METHYL PROPYL KETONE: NO-OBSERVED-EFFECT LEVEL (NOEL) FOR NEU ROTOXICITY = 305 PPM (ONLY CONCENTRATION TESTED). ORAL STUDY (10 MONTHS, RAT): LOWEST-OBSERVED-EFFECT LEVEL (LOEL) = 1% IN DRINKING WATER (REDUCED BODY WEIGHT GAIN); NOEL = 0.5% IN DRINKING WATER.

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

Ecological:SUMMARY: DATA FOR THE MAJOR COMPONENT OF THIS MATERIAL HAVE BEEN USED TO ESTIMATE THE ENVIRONMENTAL IMP

ACT OF THIS MATERIAL. IT
HAS THE FOLLOWING PROPERTIES: A HIGH BIOCHEMICAL OXYGEN DEMAND AND A POT ENTIAL TO CAUSE OXYGEN DEPLETION IN AQUEOUS SYSTEMS, A LOW POTENTIAL TO AFFECT AQUATIC ORGANISMS, A HIGH POTENTIAL TO BIODEGRADE (LOW PERSISTANCE) WITH UNACCLIMATED MICROORGANISMS FROM ACTIVATED SLUDG E. WHEN DILUTED WITH A LARGE AMOUNT OF WATER, THIS MATERIAL RELEASED DIRECTLY OR INDIRECTLY INTO THE ENVIRONMENT IS NOT EXPECTED TO HAVE A SIGNIFICANT IMPACT.

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

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE, OR LOCAL LAWS. MIX WITH COMPATIBLE CHEMICAL WHICH IS LESS FALMMABLE AND INCINERATE. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE , FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. RESIDUAL VAPORS MAY EXPLODE ON IGNITION; DO NOT CUT, DRILL, GRIND/WELD ON OR NEAR CONTAINER.

========== MSDS Transport Information
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Transport Information:DOT(USA) STATUS: REGULATED. CLASS 3, PACKING GROUP II. AIR-INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO). ICAO STATUS: REGULATED. CLASS 3, PACKING GROUP II. SEA-INTERNATIONAL MARITIME DANGEROUS GOO DS (IMDG). IMDG STATUS: REGULATED. CLASS 3.2, PACKING GROUP II.

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

SARA Title III Information:CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE I
II OF THE SUPERFUND
AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372: METHYL ISOBUTYL KETONE. SECTION 311 AND 312: FIRE HAZARD, IMMEIDATE (ACUTE) HEALTH HAZARD.
Federal Regulatory Information:ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING. OSHA CLASSIFICATION: HAZARDOUS.
State Regulatory Information:CA PROPOSITION 65: NONE KNOWN TO EASTMAN.

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

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