

EASTMAN CHEM PRODUCTS A SUB OF EASTMAN KODAK CO -- EASTMAN MPK (METHYL PROPYL KETONE) -- 6810-01-459-1991

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

Product ID:EASTMAN MPK (METHYL PROPYL KETONE)

MSDS Date:06/18/1999

FSC:6810

NIIN:01-459-1991

MSDS Number: CJKXM

=== Responsible Party ===

Company Name:EASTMAN CHEM PRODUCTS A SUB OF EASTMAN KODAK CO

Address:WILCOX DR AND LINCOLN ST

Box:431

City:KINGSPORT

State:TN

ZIP:37662

Country:US

Info Phone Num:615-229-6094/2000

Emerg

ency Phone Num:1-800-EASTMAN

Resp. Party Other MSDS Num.:100000451/F/USA

Preparer's Name:NOT PROVIDED

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 KODAK CO

Address:EASTMAN ROAD

Box:City:KINGSPORT

State:TN

ZIP:37662

Country:US

Phone:423-229-2000  
CAGE:74364  
Company Name:K- CHEMICALS INC.  
Address:2067 S. ECONOMY ROAD  
Box:City:MORRISTOWN  
State:TN  
ZIP:37814  
Country:US  
Phone:423-475-6837 FAX 423-581-5580  
Contract Num:SP0450-00-M-D477  
CAGE:0UL36  
Company Name:TELECHEM INTERNATIONAL, INC  
Address:524 E WEDDELL DRIVE SUITE 3  
Box:City:SUNNYVALE  
State:CA  
ZIP:94089-2115  
Country:US  
Phone:916-941-3688  
Contract Num:SP0450-01-M-D363  
CAGE:1KH20

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

Ingred Name:METHYL PR  
OPYL KETONE  
CAS:107-87-9  
RTECS #:SA7875000  
= Wt:94.5  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:700 MG/M3;200 PPM  
OSHA 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 =====

LD50 L

C50 Mixture:NOT PROVIDED

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EFFECTS OF EXPOSURE: GENERAL: BASED ON ANIMAL DATA AND STRUCTURE-ACTIVITY RELATIONSHIPS, THIS PRODUCT IS NOT EXPECTED TO CAUSE NERVOUS SYSTEM DAMAGE. INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION. EYES: HIGH VAPOR CONCENTRATIONS MAY CAUSE IRRITATION. SKIN: EXPECTED TO BE A LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED PERSONNEL. INGESTION: EXPECTED TO BE A LOW INGESTION HAZARD.

Explanation of Carcinogenicity:INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): NONE. AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): NONE. NATIONAL TOXICOLOGY PROGRAM (NTP): NONE. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NONE.

Effects of Overexposure:INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION. EYES: HIGH VAPOR CONCENTRATIONS MAY CAUSE IRRITATION.

N.  
Medical Condition Aggravated by Exposure:NOT PROVIDED

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

First Aid:INHALATION: MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: IN CASE OF IRRITATION FROM AIRBORNE EXPOSURE, MOVE TO FRESH AIR. IF EASY TO DO, REMOVE CONTACT LENSES. 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:=-7.8C, 46.F

Autoignition Temp:=-448.9C, 840.F

Lower Limits:(93F):1.56%

Upper Limits:(144F):8.7%

Extinguishing Media:WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE (CO2), ALCOHOL FOAM

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS & 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 & FLASH BACK. PREVENT BUILDING OF VAPORS OR GASES TO EXPLOSIVE CONCENTRA TIONS.

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

Spill Release Procedures:ELIMINATE ALL IGNITION SOURCES. ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL, THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. FOR LARGE SPILLS: USE WATER SPRAY TO DISPERSE VAPORS AND DILUTE SPI LL TO A NONFLAMMABLE MIXTURE. PREVENT RUNOFF FROM ENTERING DRAINS, SEWERS, OR STREAMS.  
Neutralizing Agent:NOT RELEVANT

===== Handling and Storage =====

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. KEEP CONTAINER IN A WELL-VENTILATED PLACE. KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP FROM CONTACT WITH OXIDIZING MATERIALS. USE ONLY WITH ADEQUATE VENTILATION. COMPLY WITH ALL N ATIONAL, STATE, AND LOCAL CODES PERTAINING TO STORAGE AND HANDLING OF FLAMMABLE LIQUIDS.  
Other Precautions:AVOID BREATHING HIGH VAPOR CONCENTRATIONS. USE ONLY WITH ADEQUATE VENTILATION.

===== 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 I NST 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. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION OR OTHER CONTROLS.  
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.  
Work Hygienic Practices

:IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO  
MINIMIZE SKIN CONTACT. IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO  
MINIMIZE EYE CONTACT.

Supplemental Safety and Health  
PRODUCT ID NUMBER: SPC 19010.

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

HCC:F2  
NRC/State Lic Num:NOT RELEVANT  
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  
Viscosity:NOT PROVIDED  
Evaporat  
ion Rate & Reference:(N-BUTYL ACETATE=1):2.3  
Solubility in Water:MODERATE  
Appearance and Odor:COLORLESS LIQUID - KETONE ODOR  
Percent Volatiles by Volume:100  
Corrosion Rate:NOT PROVIDED

===== 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:NOT PROVIDED  
Hazardous Decomposition Products:CARBON MONOXIDE, CARBO  
N DIOXIDE

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

Toxicological Information:DATA FOR METHYL PROPYL KETONE: ORAL LD-50  
(RAT): 3.73 G/KG. INHALATION LC-50 (RAT): >2000 PPM/4 HOURS. DERMAL  
LD-50 (RABBIT): 8 ML/KG. SKIN IRRITATION (GUINEA PIG): SLIGHT.  
REPEATED SKIN APPLICATION ( GUINEA PIG): SLIGHT IRRITATION. EYE  
IRRITATION (RABBIT): SLIGHT. SUBCHRONIC TOXICITY DATA FOR METHYL  
PROPYL KETONE: NO-OBSERVED-EFFECT LEVEL (NOEL) FOR NEUROTOXICITY =  
30

5 PPM (ONLY CONCENTRATION TEST ED). 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:IT HAS THE FOLLOWING PROPERTIES: A HIGH BIOCHEMICAL OXYGEN  
DEMAND AND A POTENTIAL TO CAUSE OXYGEN DEPLETION IN AQUEOUS  
SYSTEMS, A LOW POTENTIAL TO AFFECT AQUATIC ORGANISMS, A HIGH  
POTENTIAL TO BIODEGR ADE (LOW PERSI  
STANCE) WITH UNACCLIMATED  
MICROORGANISMS FROM ACTIVATED SLUDGE. WHEN DILUTED WITH A LARGE  
AMOUNT OF WATER, THIS MATERIAL RELEASED DIRECTLY OR INDIRECTLY INTO  
THE ENVIRONMENT IS NOT EXPEC TED TO HAVE A SIGNIFICANT IMPACT.

===== 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 & INCINERATE. SINCE EMPTIED C  
ONTAINERS  
RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER  
IS EMPTIED. RESIDUAL VAPORS MAY EXPLODE ON IGNITION; DO N OT CUT,  
DRILL, GRIND OR WELD ON OR NEAR CONTAINER.

===== MSDS Transport Information =====

Transport Information:DOT (USA) STATUS: REGULATED. CLASS 3, PACKING  
GROUP I I. AIR: INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO):  
ICAO STATUS: REGULATED. CLASS 3, PACKING GROUP I I. SEA:  
INTERNATIONAL MARITIME DAN  
GER OUS GOODS (IMDG): IMDG STATUS:  
REGULATED. CLASS 3.2, PACKING GROUP I I.

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

SARA Title III Information:CHEMICALS SUBJECT TO THE REPORTING  
REQUIREMENTS OF SECTION 313 OF TITLE III 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 T

HIS PRODUCT ARE

LISTED ON THE TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY. ANY  
IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING.

State Regulatory Information:CALIFORNIA PROPOSITION 65 (SAFE DRINKING  
WATER AND TOXIC ENFORCEMENT ACT OF 1986): MATERIAL(S) KNOWN TO THE  
STATE OF CALIFORNIA TO CAUSE CANCER: NONE KNOWN. CALIFORNIA  
PROPOSITION 65 (SAFE DRINKING WA TER AND TOXIC ENFORCEMENT ACT OF  
1986): MATERIAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE  
ADVERSE  
REPRODUCTIVE EFFECTS: NONE KNOWN.

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

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