

EASTMAN CHEM PRODUCTS A SUB OF EASTMAN KODAK CO -- EASTMAN MPK (METHYL PROPYL KETONE) -- 6810-01-459-1992

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

Product ID:EASTMAN MPK (METHYL PROPYL KETONE)

MSDS Date:09/17/1999

FSC:6810

NIIN:01-459-1992

MSDS Number: CKHPL

==== 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

Chemtrec Ind/Phone:(800)424-9300

CAGE:74364

==== Contractor Identification ====

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT

Address:2275 TUCKER INDUSTRIAL RD

Box:City:TUCKER

State:GA

ZIP:30084

Country:US

Phone:770-938-4513/FAX 770-938-3966

Contract Num:SP0450-00-M-SE98

CAGE:1MDA6

Company Name:COMPTECH CORP

Address:159

44 DERWOOD RD

Box:City:ROCKVILLE

State:MD

ZIP:20855

Country:US

Phone:800-284-5279; 301-519-3401

Contract Num:SP0450-00-M-D876

CAGE:0BR38

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

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

Ingred Name:METHYL PROPYL KETONE

CAS:107-87-9

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 LC50 Mixture:LD50 (ORAL, RAT) 3.37G/KG
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:
IARC: NOT LISTED. ACGIH: NOT LISTED.
NTP: NOT LISTED.
Effects of Overexposure:DROWSINESS, IRRITATION

===== 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 ATTE

NOTION 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 CONCENTRATIONS. MAY FORM PEROXIDES OF UNKNOWN
STABILITY.

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

Spill Release Procedures:USE PERSONAL PROTECTIVE EQUIPMENT.
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
SPILL TO A NONFLAMMABLE MIXTURE. PREVENT RUNOFF FROM ENTERING
DRAINS, SEWERS, OR STREAMS.

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. KEEP
CONTAINER IN A WELL-VENTILATED PLACE. AVOID BREATHING HIGH VAPOR
CONCENTRATIONS. KEEP AWAY FROM HEAT AND LIGHT. KEEP AWAY FROM
HEAT, SPARKS, AND FLAMES. KEEP FROM CONTACT WITH OXIDIZING
MATERIALS. USE ONLY WITH ADEQUATE VENTILATION.
Other Precautions:COMPLY WITH ALL NATIONAL STATE, AND LOCAL CODES
PERTAINING TO THE STORAGE, HANDLING, DISPENSING, AND DISPOSAL OF
FLAMMABLE LIQUIDS. MINIMIZE EXPOSURE TO AIR. IF PEROXIDE
FORMATION IS SUSPECTED, DO NOT OPEN OR MOVE CONTAINER. AVOID
BREATHING HIGH VAPOR CONCENTRATIONS. USE ONLY WITH ADEQUATE

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LTION.

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS, AN APPROVED RESPIRATOR MUST BE WORN. RESPIRATOR TYPE: ORGANIC VAPOR. IF RESPIRATORS ARE USED, A PROGRAM SHOULD BE INSTITUTED 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:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Supplemental Safety and Health
NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Physical/Chemical Properties ==
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HCC:F2

Boiling Pt:=100.6C, 213.F

Melt/Freeze Pt:=-77.8C, -108.F

Vapor Pres:@20C (68F)37BAR(27.8MMHG)

Vapor Density:(AIR=1)2.9

Spec Gravity:@20C (68F)(H2O=1):0.81

Evaporation Rate & Reference:(N-BUTYL ACETATE=1):2.3

Solubility in Water:MODERATE

Appearance and Odor:COLORLESS LIQUID - KETONE ODOR

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

Stability Indicator/Materials to Avoid:YES

MATERIAL CAN REACT VIOLENTLY WITH STRONG BASES, STRONG OXIDIZING

A

GENTS, STRONG REDUCING AGENTS.

Stability Condition to Avoid:NORMALLY STABLE; HOWEVER, ON LONG TERM STORAGE, MATERIALS CONTAINING SIMILAR FUNCTIONAL GROUPS FORM PEROXIDES OF UNKNOWN STABILITY.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information: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 NEUROTOXICITY = 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: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 BIODEGRADE (LOW PERSISTANCE) 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 EXPECTED TO HAVE A SIGNIFICANT IMPACT.

OXYGEN DEMAND DATA: THOD: 2.6 G O₂/G; COD: 1.8 G O₂/G; BOD-5: 1.38 G O₂/G; BOD-20: 1.8 G O₂/G. ACUTE AQUATIC EFFECTS: 96-H LC-50

(FATHEAD MINNOW): >1000

MICROLITER/L.

===== 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 FLAMMABLE 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.

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MSDS Transport Information =====

Transport Information:US DOT: REGULATED. CLASS III, PACKING GROUP II.
AIR, INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO). -ICAO
STATUS: REGULATED. CLASS III, PACKING GROUP II. - SEA,
INTERNATIONAL MARITIME DANGEROUS GOODS (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 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,
IMMEDIATE (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.

State Regulatory Information:CALIFORNIA PROPOSITION 65: NONE KNOWN TO
EXIST.

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

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