

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

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

Product ID:EASTMAN MPK (METHYL PROPYL KETONE)

MSDS Date:01/20/1999

FSC:6810

NIIN:01-459-1992

Status Code:A

MSDS Number: CJKXW

=== 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

Emergency Phone Num:1-800-EASTMAN

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

Preparer's Name:EASTMAN PRODUCT SAFETY/ST

Chemtec 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

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

Ingred Name:METHYL PROPYL 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

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) 3730 MG/M3;ME PROPYL KE

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM, LIVER, KIDNEYS, CNS (NIOSH). EFFECTS OF EX

POSURE: 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:NONE

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 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:F

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.

===== 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 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. KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP FROM CONTACT WITH OXIDIZING MATERIALS. USE ONLY WITH ADEQUATE VENTILATION. COMPLY WITH ALL NATIONAL, 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 INSTITUTED TO ASSURE COMPLIANCE WITH OSHA STANDARD

D 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:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RE

COMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING,
DRINKING OR SMOKING (HMIS)

Supplemental Safety and Health
PRODUCT ID NUMBER: SPC 19010.

===== 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)(H2O=1):0.81

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

Solubility in Water:MODERATE

Appearance and Odor:COLORL

ESS 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.

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 O

XYGEN

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 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 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 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 =====

Transport Information:US DOT: REGULATED. CLASS III, PACKI NG GROUP II.

AIR, INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO). -ICAO STATUS: REGULATED. CLASS III, 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 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 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:CA PROPOSITION 65: NONE KNOWN TO EASTMAN.

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

Disclaimer (provided with this information b

y 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.