

EASTMAN CHEM PRODUCTS A SUB OF EASTMAN KODAK CO -- "EASTMAN" MPK --
6810-01-459-1987

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

Product ID:"EASTMAN" MPK

MSDS Date:06/18/1999

FSC:6810

NIIN:01-459-1987

Status Code:A

MSDS Number: CJNKY

=== 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

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Info Phone Num:615-229-6094/2000

Emergency Phone Num:800-EASTMAN

Resp. Party Other MSDS Num.:SPC 19010

Chemtrec Ind/Phone:(800)424-9300

CAGE:74364

=== Contractor Identification ===

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: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:SP0450-99-M-NG91
CAGE:1KH20

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Composition/Information on Ingredients
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Ingred Name:METHYL PROPYL KETONE
CAS:107-87-9
RTECS #:SA7875000
= Wt:94.5
OSHA PEL:700 MG/M3;200 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
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

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Hazards Identif
ication
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LD50 LC50 Mixture:ORAL RAT LD50: 3.73 GM/KG.
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYES: HIGH VAPOR CONCENTRATIONS MAY CAUSE IRRITATION. SKIN: EXPECTED TO BE A LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED PERSONNEL. INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION. INGESTION: EXPECTED TO BE A LOW INGESTION HAZARD.
Explanation of Carcinogenicity:NOT LISTED BY NTP, IARC, ACGIH, OSHA.
Effects of Overexposure:EYES: IRRITATION. INHALATION: DROWSINESS, IRRITATION.

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First Aid Measures
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First Aid: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. INHALATION: MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY, GET MEDICAL A

ATTENTION IF SYMPTOMS

PERSIST. INGESTION: GET MEDICAL ATTENTION.

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

Flash Point Method:TCC

Flash Point:=8.C, 46.4F

Autoignition Temp:=448.9C, 840.F

Lower Limits:1.56

Upper Limits:8.7

Extinguishing Media:WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE (C02),
ALCOHOL FOAM.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
PROTECTIVE CLOTHING. USE WATER SPRAY TO KEEP FIRE-EXPOSED
CONTAINERS COOL. WATER M

AY 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.

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

Spill Release Procedures:USE PERSONAL PROTECTIVE EQUIPMENT. ELIMINATE
ALL IGNITION SOURCES. ABSORB SPILL WITH VERMICULITE OR OTHER INER

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MATERIAL. THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. FOR LARGE
SPILLS: USE WATER SPRA Y 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 CLOSED, IN A
WELL-VENTILATED PLACE AWAY FROM HEAT, SPARKS, AND FLAME. KEEP FROM
CONTACT WITH OXIDIZING MATERIALS. USE ONLY WITH ADEQUATE
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TILATION. COMPLY WITH ALL NATIONAL, STATE, A ND LOCAL CODES
PERTAINING TO THE STORAGE, HANDLING, DISPENSING, AND DISPOSAL OF
FLAMMABLE LIQUIDS.

Other Precautions:SINCE EMPIED CONTAINERS RETAIN PRODUCT RESIDUE,
FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPIED. RESIDUAL
VAORS MAY EXPLODE ON IGNITION: DO NOT CUT, DRILL, GRIND, OR WELD ON
OR NEAR THIS CONTAINER . AVOID BREATHING HIGH VAPOR
CONCENTRATIONS.I

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

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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, JANUARY 8, 1998.

Ventilation:USE GOOD GENERAL VENTILATION , PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED LIMITS

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 WASH STATION AND WASHING FACILITIES.

Work Hygienic Practices:NONE PROVIDED BY MFR.

Supplemental Safety and Health

NONE PROVIDED BY MFR.

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

HCC:F2

Boiling Pt:=101.C, 213.8F

Melt/Freeze Pt:=-78.C, -108.4F

Vapor P

res:27.8 MM HG @ 20 DEG C

Vapor Density:2.9 (AIR=1)

Spec Gravity:0.81 @ 20 DEG C (WATER=1)

Evaporation Rate & Reference:2.3 (BUAC=1)

Solubility in Water:AT AMBIENT TEMP: MODERATE

Appearance and Odor:LIQUID, COLORLESS, KETONE ODOR.

===== 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:NONE PROVIDED BY MFR.

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azardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR

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

Toxicological Information:BASED ON ANIMAL DATA AND STRUCTURE-ACTIVITY RELATIONSHPS, THIS PRODUCT IS NOT EXPECTED TO CAUSE NERVOUS SYSTEM DAMAGE.

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

Ecological:DATA FOR THE MAJOR COMPONENT OF THIS MATERIAL HAVE BEEN USED TO ESTIMATE THE ENVIRONMENTAL IMPACT OF THIS MATERIAL. 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 PERSISTENCE) 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.

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

Waste Disposal Methods: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 E VEN AFTER CONTAINER IS EMPTIED. RESIDUAL VAPORS MAY EXPLODE ON IGNITION: DO NOT CUT, DRILL, GRIND, O R WELD ON OR NEAR THIS CONTAINER.

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

Transport Information:DOT (USA) STATUS: REGULATED, HAZARD CLASS 3, PKG II. AIR, INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAC), ICAO STATUS: REGULATED, HAZARD CLASS 3, PKG II. SEA, INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG), IMDG STATUS: REGULATED, HAZARDOUS CLASS 3.2, PKG II.

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

SARA Title III Information:CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OR TITLE

III OF THE SUPERFUND

AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372: METHYL ISOBUTYL KETONE. SARA (U.S. A.) SECTIONS 311 AND 312 HAZARD CLASSIFICATIONS: FIRE HAZARD, IMMEDIATE (ACUTE) HEALTH HAZARD.

Federal Regulatory Information: US TOXIC SUBSTANCES CONTROL ACT (TSCA): ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING. CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) AND

DOMESTIC

SUBSTANCES LIST (DSL): ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE DSL. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING. EUROPEAN INVENTORY OF EXISTING COMMERCIAL SUBSTANCES (EINECS): ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON EINECS.

State Regulatory Information: AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) AND NATIONAL INDUSTRIAL CHEMICALS NOTIFICATION AND ASSESSMENT SCHEME (NICAS): ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON AIC

AND OTHERWISE COMPLY WITH NICAS. JAPANESE HANDBOOK OF EXISTING AND NEW CHEMICAL SUBSTANCES: ALL COMPONENTS OF THIS PRODUCT ARE LISTED IN THE HANDBOOK OR HAVE BEEN APPROVED IN JAPAN BY NEW SUBSTANCE NOTIFICATION.

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

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