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EASTMAN CHEM PRODUCTS A SUB OF EASTMAN KODAK CO -- "EASTMAN" ETHYL ACETATE, URETHANE GRADE -- 6810-00-062-6954
========== Product Identification ==========

Product ID:"EASTMAN" ETHYL ACETATE, URETHANE GRADE
MSDS Date:01/20/1999
FSC:6810
NIIN:00-062-6954
Status Code:A
MSDS Number: CLCRS
=== Responsible Party ===
Company Name:EASTMAN CHEM PRODUCTS A SUB OF EASTMAN KODAK CO
Address:WILCOX DR AND LINCOLN ST
Bo
x:431
City:KINGSPORT
State:TN
ZIP:37662
Country:US
Info Phone Num:615-229-6094/2000
Emergency Phone Num:800-EASTMAN
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:PHOENIX INDUSTRIES INC
Address:1519 CHAMBERLAYNE PARKWAY
Box:City:RICHMOND
State:VA
ZIP:23222
Country:US
Phone:804-264-5183/FAX: 264

-5535
Contract Num:SP0450-01-M-D997
CAGE:0YED2

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

Ingred Name:ETHYL ACETATE
CAS:141-78-6
RTECS #:AH5425000
= Wt:100.
OSHA PEL:1400 MG/M3;400 PPM
ACGIH TLV:1440 MG/M3;400 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:ORAL LD50 (RAT): 5.60 G/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:N
O OSHA:NO
Health Hazards Acute and Chronic:INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION. EYES: HIGH VAPOR CONCENTRATIONS MAY CAUSE IRRITATION. SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE DRYING, CRACKING, OR IRRI TATION. INGESTION: EXPECTED TO BE A LOW INGESTION HAZARD.
Effects of Overexposure:INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION. EYES: HIGH VAPOR CONCENTRATIONS MAY CAUSE IRRITATION. SKIN: PROLONGED OR RE
PEATED CONTACT MAY CAUSE
DRYING, CRACKING, OR IRRI TATION. 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 IRRITATION 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. REMO

VE CONTAMINATED CLOTHING AND SHOES.
GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. WASH CONTAMINATED CLOTHING BEFORE REUS E. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES. INGESTION: SEEK MEDICAL ADVICE.

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

Flash Point Method:TCC
Flash Point:=-4.C, 24.8F
Autoignition Temp:=485.C, 905.F
Lower Limits:2.02
Upper Limits:10.7
Extinguishing Media:WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE (CO2), FOAM.
Fire Fighting Procedure
s: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.

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

Spi
ll 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 SPIL L TO A NONFLAMMABLE MIXTURE. PREVENT RUNOFF FROM ENTERING DRAINS, SEWERS, OR STREAMS.

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

Handling and Storage Precautions:KEEP AWAY FAROM HEAT, SPARKS, AND FLAME. USE ONLY WITH ADEQUATE VENT
ILATION. KEEP FROM CONTACT WITH OXIDIZING MATERIALS. COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODES PERTAINING TO THE STORAGE, HAN DLING, DISPENSING, AND DISPOSAL OF FLAMMABLE LIQUIDS. KEEP CONTAINER TIGHTLY CLOSED.
Other Precautions:AVOID BREATHING HIGH VAPOR CONCENTRATIONS. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Prot

ection: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 PROGR AM SHOULD BE INSTITUTED TO ASSURE
COMPLIANCE WITH OSHA STANDARD 63 FR 1152, JANUARY 8, 1998.
Ventilation:GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER
HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO
CONDITIONS.
Protective Gloves:CHEMICAL-RESISTAN
T GLOVES SHOULD BE WORN. CONTACT
GLOVE MFR FOR SPECIFIC INFO
Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).
Other Protective Equipment:WEAR FULL-FACE RESPIRATOR, IF NEEDED.
RECOMMENDED DECONTAMINATION FACILITIES: EYE BATH, WASHING
FACILITIES.
Supplemental Safety and Health
USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING
CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE
LIMITS.

========== Physical/Chemical Pro
perties ==========

HCC:F2
Boiling Pt:=78.C, 172.4F
Melt/Freeze Pt:=-83.C, -117.4F
Vapor Pres:99 MBAR (75 MM HG)
Vapor Density:3.0
Spec Gravity:0.902
pH:NOT AVAILABLE
Viscosity:NOT AVAILABLE
Evaporation Rate & Reference:4.1 (N-BUTYL ACETATE)
Solubility in Water:MODERATE
Appearance and Odor:COLORLESS LIQUID; SWEET, ESTER ODOR.

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

Stability Indicator/Materials to Avoid:YES
MATERIAL CAN REACT VIOLENTLY WITH STRONG OXIDI
ZING AGENTS, STRONG
ACIDS, STRONG BASES.
Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:INHALATION LC50 (RAT): 16,000 PPM/6 HOUR(S).
DERMAL LD50 (RABBIT): >20 ML/KG (HIGHEST DOSE TESTED). SKIN
IRRITATION (RABBIT): VERY SLIGHT. SKIN SENSITIZATION (HUMAN):
NONE. EYE IRRITATION (RABBIT) : SLIGHT. SUBCHRONIC TOXICITY

DATA:
INHALATION STUDY (11 WEEKS, GUINEA PIG): NOEL = 1000 PPM (ONLY CONCENTRATION TESTED). INHALATION STUDY (13 WEEKS, RAT): LOEL = 350 PPM; (TARGET ORGAN EFFECTS: NOS E); NOEL = NOT ESTABLISHED. *LOEL = LOWEST-OBSERVED-EFFECT LEVEL, NOAEL = NO OBSERVED-ADVERSE-EFFECT LEVEL, NOEL = NO-OBSERVED-EFFECT LEVEL.

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

Ecological:DATA FOR THIS MATERIAL HAVE BEEN USED TO ESTIMATE ITS ENVIRONMENTAL IMPACT. IT HA
S THE FOLLOWING PROPERTIES: A HIGH BIOCHEMICAL OXYGEN DEMAND AND A POTENTIAL TO CAUSE OXYGEN DEPLETION IN AQUEOUS SYSTE MS, A LOW POTENTIAL TO AFFECT AQUATIC ORGANISMS, A LOW POTENTIAL TO PERSIST IN THE ENVIRONMENT, A LOW POTENTIAL TO BIOCONCENTRATE. WHEN DILUTED WITH A LARGE AMOUNT OF WATER, THIS MATERIAL RELEASED DI RECTLY OR INDIRECTLY INTO THE ENVIRONMENT IS NOT EXPECTED TO HAVE A SIGNIFICANT IMPACT. OXYGEN DEMAND DATA: THOD: 1.82 G OXYGEN/G.

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

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE, OR LOCAL LAWS. 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, OR WELD ON OR NEAR THIS CONTAINER .

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

Transport Information:DOT (USEA) STA
US: REGULATED, CLASS 3, PACKING GROUP II, DOT REPORTABLE QUANTITY: 5000 LB (2270 KG.). AIR - INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO), REGULATED, CLASS 3, PACKING GROUP II. SEA - INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG), REGULATED, CLASS 3.2, PACKING GROUP II.

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

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

ENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372: NONE. SARA (U.S.A.) SECTIONS 311 AND 312 HAZARD CLASSIFICATION(S): FIRE HAZARD, IMMEDIATE (ACUTE) HEALTH HAZARD.

Federal Regulatory Information:US TOXIC SUBSTANCES CONTROL ACT (TSCA): THIS PRODUCT IS LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING.