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EASTMAN CHEMICAL COMPANY -- 00611-011, EASTMAN ISOPROPANOL -- 6810-00-543-7915
========== Product Identification ==========

Product ID:00611-011, EASTMAN ISOPROPANOL
MSDS Date:01/20/1999
FSC:6810
NIIN:00-543-7915
Status Code:A
MSDS Number: CKZCH
=== Responsible Party ===
Company Name:EASTMAN CHEMICAL COMPANY
City:KINGSPORT
State:TN
ZIP:37662
Country:US
Info Phone Num:423-229-2000 EM HLTH:800-EASTMAN
Emerge
ncy Phone Num:EM: 800-EASTMAN / 800-424-9300
Resp. Party Other MSDS Num.:100000041/F/USA
Chemtrec Ind/Phone:(800)424-9300
CAGE:TO540
=== Contractor Identification ===
Company Name:ALLIANCE CHEMICAL INC
Address:3 OAKMOOR
Box:79
City:ROUND ROCK
State:TX
ZIP:78680
Country:US
Phone:512-365-6838
Contract Num:SP0400-01V-0542
CAGE:1LT50
Company Name:EASTMAN CHEMICAL COMPANY
City:KINGSPORT
State:TN
ZIP:37662
Country:US
Phone:423-229-2000 EM HLTH:800-EASTMAN
CAGE:TO540

========== Composition/Informa

tion on Ingredients ==========

Ingred Name:ISOPROPANOL
CAS:67-63-0
RTECS #:NT8050000
= Wt:100.
OSHA PEL:980 MG/M3;400 PPM
ACGIH TLV:983 MG/M3;400 PPM
ACGIH STEL:1230 MG/M3;500 PPM

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

LD50 LC50 Mixture:ORAL LD-50 (RAT): 5.8 G/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE DROW
SINESS AND IRRITATION. EYES: MAY CAUSE TRANSIENT IRRITATION. SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE DRYING, CRACKING, OR IRRITATION. THIS MAT ERIAL HAS A LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS. HOWEVER, CASES OF HUMAN SKIN SENSITIZATION HAVE BEEN REPORTED. INGESTION: EXPECTED TO BE A LOW INGESTION HAZARD.
Explanation of Carcinogenicity:NOT LISTED.
Effects of Overexposure:INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION. EYES: MAY CA
USE TRANSIENT IRRITATIN. SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE DRYING, CRACKING, OR IRRITATION. THIS MATE RIAL HAS A LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS. HOWEVER, CASES OF HUMAN SKIN SENSITIZATION HAVE BEEN REPORTED. INGESTION: EXPECTED TO BE A LOW INGESTION HAZARD.
Medical Cond Aggravated by Exposure:NOT PROVIDED

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

First Aid:INHALATION: MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICA
L ATTENTION IF SYMPTOMS PERSIST. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF EASY TO DO, REMOVE CONTACT LEN SES. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. WASH CONTAMINATED CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE. INGESTION: SEEK MEDICAL ADVICE.

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

Flash Point Method:TCC
Flash Point:=12.8C, 55.F
Autoignition Temp:=432.C, 809.6F
Lower Limits:(79F): 2.5%
Upper Limits:(151F):12.1%
Extinguishing Media:WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE (CO2), ALCOHOL FOAM.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. USE WATER SPRAY TO KEEP HEAT-EXPOSED CONTAINERS COOL. WATER MAY BE INEFFECTIVE IN FIGHTING THE FIRE.
Unusual Fire/Explosion Hazard:FLAMMABLE. VAPORS MAY CAUSE A FLASH FIRE OR IG
NITE EXPLOSIVELY. VAPORS MAY TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. PREVENT BUILDUP OF VAPORS OR GASES TO EXPLOSIVE CONCENTR ATIONS. FORMS EXPLOSIVE PEROXIDES WHICH MAY BE SHOCK SENSITIVE.

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

Spill Release Procedures:ELIMINATE ALL IGNITION SOURCES. ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATEIAL, 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.
Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:STORE AWAY FROM HEAT & LIGHT: KEEP TIGHTLY CLOSED. KEEP IN WELL-VENTILATED PLACE. KEEP AWAY FROM HEAT, SPARKS & FLAME. KEEP FROM CONTACT WITH OXIDIZERS. USE ONLY WITH ADEQUATE VENTILATION. PERIODICALL Y TEST FOR PEROXIDE FOR
MATION. IF
PEROXIDE FORMATION SUSPECTED, DO NOT OPEN OR REMOVE CONTAINER.
Other Precautions:AVOID CONTACT WITH EYES AND PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID BREATHING HIGH VAPOR CONCENTRATIONS. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. DO NOT EXPOSE TO AIR . AFTER OPENING, PURGE CONTAINER WITH NITROGEN BEFORE RECLOSING.

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NO

T MAINTAIN AIRBORNE
CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS. AN APPROVED RESPIRATOR MUST BE WORN. RESPIRATOR TYPE: MIST, ORGANIC VAPOR. IF RESPIRATORS ARE USED, A PROGRAM 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:FOR PROLONGED OR REPEATED SKIN CONTACT:CHEM
ICAL-RESISTANT GLOVES SHOULD BE WORN
Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).
Other Protective Equipment:EYE BATH, WASHING FACILITIES.
Work Hygienic Practices:NOT PROVIDED
Supplemental Safety and Health

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

HCC:F2
Boiling Pt:=82.2C, 180.F
Melt/Freeze Pt:=-90.C, -130.F
Vapor Pres:(68F):43.3MBAR (32.8MMHG)
Spec Gravity:20C(68F):(WATER=1):0.786
pH:NOT AVAILABLE
Viscosity:(68F): 2.38
Solubility in Water:COMP
LETE
Appearance and Odor:COLORLESS LIQUID. ALCOHOL ODOR. THRESHOLD: 22 PPM

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

Stability Indicator/Materials to Avoid:YES
MATERIAL CAN REACT VIOLENTLY WITH STRONG OXIDIZING AGENTS.
Stability Condition to Avoid:STABLE. HOWEVER, FORMS EXPLOSIVE PEROXIDES ON CONCENTRATION.
Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

========== Toxicological Inform
ation ==========

Toxicological Information:ORAL LD50-RABBIT: 7.9 G/KG. ORAL LD50-DOG: 6.2 G/KG, INHALATION LC50-RAT: 12000 PPM/8 HRS. SKIN IRRITATION-RABBIT: SLIGHT. REPEATED SKIN IRRITATION-RABBIT: SLIGHT IRRITATION. EYE IRRITATION-RABBIT: SL IGHT TO MODERATE. REPRODUCTIVE TOXICITY DATA-INHALATION: 19 DAYS RAT: LOEL FOR MATERNAL TOXICITY: 10000 PPM (NARCOSIS)(REDUCED FEED INTAKE), NOEL FOR MATERNAL TOXICITY: 3500 PPM, LOEL FOR TERATOGENICI TY: 7000 PPM, NOE

L FOR TERATOGENICITY: 3500 PPM. NOEL FOR DEVELOPMENTAL TOXOICITY: 3500 PPM.

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

Ecological:MATERIAL HAS HIGH BIOCHEMICAL OXYGEN DEMAND & POTENTIAL TO CAUSE OXYGEN DEPLETION IN AQUEOUS SYSTEMS, LOW POTENTIAL TO CAUSE AFFECT AQUATIC ORGANISMS, LOW POTENTIAL TO AFFECT SECONDARY WASTE TREATMENT MICROBIAL METABOLISM, LOW POTENTIAL TO AFFECT GERMINATION AND/OR EARLY GROWTH OF SOME PLANTS, LOW POTENTIAL TO AFFEC
T GROWTH OF SOME PLANT SEEDLINGS, HIGH POTENTIAL TO BIODEGRADE WITH UNACCLIMATED MI CROORGANISMS FROM ACTIVATED SLUDGE. WHEN DILUTED WITH LARGE AMOUNT OF WATER DIRECTLY OR INDIRECTLY TO ENVIRONMENT, NOT EXPECTED TO HAVE SIGNIFICANT IMPACT.

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

Waste Disposal Methods:DISCHARGE, TREATMENT,OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE, LOCAL LAWS. MIX WITH COMPATIBLE CHEMICAL WHICH IS LESS FLAMMABLE AND INCINERATE
. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FO LLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. RESIDUAL VAPORS MAY EXPLODE ON IGNITION; DO NOT CUT, DRILL, GRIND, OR WELD ON OR NEAR CONTAINER.

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

Transport Information:DOT/IATA: REGULATED, CLASS 3, PACKING GROUP II, IMDG: REGULATED, CLASS 3.2, PACKING GROUP II.