

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

Product ID:ISOPROPANOL 99%

MSDS Date:01/05/1996

FSC:6810

NIIN:00-855-1158

MSDS Number: CGLDL

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC

Address:3849 FISHER RD

Box:2219

City:COLUMBUS

State:OH

ZIP:43228

Country:US

Info Phone Num:614-790-3333

Emergency Phone Num:800-274-5263

CAGE:7L600

=== Contractor Identific

ation ===

Company Name:ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC

Address:3849 FISHER RD

Box:2219

City:COLUMBUS

State:OH

ZIP:43216

Country:US

Phone:614-790-3333 / 800-325-3751

CAGE:7L600

Company Name:JEM SALES INC INCHEMCO DIV

Address:430 LAVENDER DR

Box:City:ROME

State:GA

ZIP:30165-2262

Country:US

Phone:706-232-1709

CAGE:0AZD7

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

Ingred Name:ISOPROPYL ALCOHOL (SARA 313)

CAS:67-63-0

RTECS #:NT8050000

Fraction by Wt: 100.0%

Oth

er REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9596

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:EYE:IRRIT.SKIN:IRRIT.PROL/REP EXPO MAY
DRY SKIN.SKIN ABSORP POSSIBLE BUT HARMFUL EFFECTS NOT EXPECTED
UNDER NORMAL CONDITIONS OF HNDLG/USE.INGEST:SM A

MTS DURING NORMAL

HNDLG NOT LIKELY TO CAUSE HARMFUL EFFECTS;LG AMTS MAY BE
HARMFUL.INHAL:VAP/MIST EXPO POSSIBLE.BREATH SM AMTS DURING NORMAL
HNDLG NOT LIKELY TO(SIGN/SYM)

Explanation of Carcinogenicity:PER MSDS:BASED ON AVAIL INFO MATL CANT BE
CLASSIFIED W/REGARD TO CARCINOGENICITY.MATL NOT LISTED AS CARC BY
IARC/NTP/OSHA

Effects of Overexposure:HEALTH:CAUSE HARMFUL EFFECTS;LG AMTS MAY BE
HARMFUL.

SYMPT:EYE-STING,TEAR,RED,SWELL.SKIN:RED,BURN,DRY,CRACK,BURNS.GI
IRR

IT(NAU,VOMIT,DIARR)IRRIT(NOSE,THROAT,RESP TRACT)CNS

DEPRESS(DIZZ,DROWS,WEAK,FTG, NAU,HEAD,UNCONSC)LOW BLOOD PRESS,MILD
REVER LIV EFFECT,HEART RATE EFFECT,RESP DEPRESS,IMPAIR
COORD,CONF,PULM EDEMA,KIDNE

Medical Cond Aggravated by Exposure:TARGET ORGANS:OVEREXPO TO
MATL/COMPO HAS BEEN SUGGESTED AS CAUSE OF FOLLOWING EFFECTS IN LAB
ANIMALS & MAY AGGRAVATE PRE-EXISTING DISORDRS OF THESE ORGANS IN
HUMANS:MILD,REVERSIBLE LIVER EFFECTS.

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

First Aid:EYE:SYMPT DVLP IMMED MOVE TO FRESH AIR.FLUSH W/H2O FOR @LEAST
15MINS,HOLD EYELIDS APART.SEEK IMMED MED ATTN.SKIN:REMOVE CONTAM
CLOTH.WASH W/SOAP/H2O.SYMPT PERSIST SEEK MED ATTN.INGEST:SEEK MED
ATTN.DROWSY/UNCONSC DONT GIVE ANYTHING BY MOUTH.PLACE ON LEFT SIDE
W/HEAD DOWN.CONSC/ALERT INDUCE VOMIT BY GIVING SYRUP OF IPECAC OR
PLACE FINGERS @BACK OF THROAT.INHAL:SYMPT DVLP IMMED MOVE TO
FRESH(SUPPLY)

===== Fire Fighting =====

ng Measures =====

Flash Point Method:TCC

Flash Point:53.0F,11.7C

Autoignition Temp:Autoignition Temp Text:750F

Lower Limits:2.0

Upper Limits:NP

Extinguishing Media:ALCOHOL FOAM,CARBON DIOXIDE, DRY CHEMICAL.

Fire Fighting Procedures:H2O MAY BE INEFFECTIVE-MAY BE USED TO KEEP
FIRE-EXPO CNTNR COOL TIL FIRE OUT.WEAR SCBA W/FULL FCPCIN +PRESS
DEMAND MODE W/APPROP TURNOUT GEAR,CHEM RESIST PPE.

Unusual Fire/Explosion Hazard:VAP HEAVIER THAN AIR,MAY TRAVEL ALONG
GROUND/MOVE

BY VENTI/IGN BY PILOT LIGHTS,OTHER

FLAME/SPARK/HEATER/SMOKE/OTHER IGN SOURCES @LOC DISTANT FRM MATL
HNDLG(SUP)

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

Spill Release Procedures:SM:ABSORB ON VERM/FLR ABSORBEN/OTHER ABSORB
MATL.LG:REMOVE ALL IGN SOURCES.EXCLUDE FRM AREA PERSON W/O PPE TIL
CLEANUP COMPLETE.STOP SPILL @SOURCE.PREVENT FRM ENTER
DRAIN/SEWER/STREAM/BODIES OF H2O/SP READING.RUNOFF OCCUR NOTIFY
AUTHORITIES.(SUPLEME)

Neutralizing Agen

t:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:CNTNR MAY BE HAZ WHEN EMPTIED SINCE
RETAIN PROD RESIDUE(VAP/LIQ/SOLID)ALL HAZ PRECAUT MSUT BE
OBSERVED.5GAL PAILS/LGER METAL CNTNR INCLUDE TNK CARS &

Other Precautions:TNK TRUCK SHOULD BE GROUND/BOND WHEN MATL
TRANSF.WARNING:SUDDEN RELEASE OF HOT ORG CHEM VAP/MIST FRM PROCESS
EQPMT OPERATING @ELEV TEMP/PRESS,SUDDEN INGRESS OF AIR INTO VAC
EP

QMT MAY RESULT IN IGN W/O IGN SOURCE.EVALUATE PROD USE @ELEV
TEMP

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

Respiratory Protection:WORKPLACE EXPO PROD/COMPO LIMIT
EXCEEDED,NIOSH/MSHA APPROV AIR SUPP RESP ADVISED IN ABSENCE OF
PROPER ENVIRO CNTRL.OSHA REGS PERMIT OTHER NIOSH/MSHA RESP(-PRESS
TYP)UNDER SPEC CONDITIONS.ENGINEER/ADMI N CNTRL SHOULD BE
IMPLEMENTED TO RED EXP

Ventilation:PROVIDE SUFFICIENT MECHANICAL(GENERAL &/OR LOCAL
EXHAUST)VENTI

LATION TO MAINTAIN EXPO BELOW TLV(S).

Protective Gloves:RESIST GLOVES

Eye Protection:CHEM SPLASH GOGG,OTHER OSHA.

Other Protective Equipment:IMPERV CLOTH/BOOTS.CONSULT SAF EQPMT
SUPPLIER/REP.

Work Hygienic Practices:LAUNDER CLOTHING BEFORE REUSE.

Supplemental Safety and Health

1ST AID: AIR. SEEK IMMEDIATE ATTENTION. KEEP WARM/QUIET. NOT BREATH BEGIN ART
RESP; DIFFICULT BREATH ADMINISTER OXY. FIRE/EXPLO: PT. NEVER USE WELD/CUT
TORCH ON/NEAR DR (EVEN EMPTY) BECAUSE PROD (EVEN JUST RESIDUE) CAN IGNITE

EXPLO. SPILL: PUMP/VAC TRANSFER TO CONTAINER. ABSORB
UNRECOVERABLE. TRANSFER CONTAMINATED SOIL/MATERIAL. STOP SPILL @ SOURCE.

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

HCC:F2

Boiling Pt: =82.C, 179.6F

Melt/Freeze Pt: =-89.C, -128.2F

Decomp Temp:Decomp Text:NP

Vapor Pres:33.000

Vapor Density:2.070

Spec Gravity:0.789 @60F

VOC Pounds/Gallon:789

pH:NO DATA

VOC Grams/Liter:6.59

Viscosity:2.4CPS

Evaporation Rate & Reference:7.70 (ETHYL ETHER)

Solubility in Water:100%

Appearance and Odor:TRA

TRANSPARENT LIQ, NEAT PHYSICAL FORM, CLEAR, PT-CO COLOR
10MAX, SLIGHT ETHANOL/ACETONE O

Percent Volatiles by Volume:100

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

ACETALDEHYDE, ACIDS, CHLORINE, ETHYLENE OXIDE, ISOCYANATES, STRONG OXIDIZING
AGENTS. DON'T USE WITH ALUMINUM EQUIPMENT @ TEMPS >120F.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:HAZ COMBUST/DECOMPOSITION PRODUCT:CARBON
DIOXIDE

DE & CARBON MONOXIDE.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL
APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. NO CERCLA/SARA
302/SARA 313.

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