

ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC -- ISOPROPANOL 99% -- 6810-00-855-1158  
===== 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

Eme

rgency Phone Num:800-274-5263

CAGE:7L600

=== Contractor Identification ===

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 (S

ARA 313)  
CAS:67-63-0  
RTECS #:NT8050000  
Fraction by Wt: 100.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:400 PPM  
ACGIH TLV:400 PPM/500STEL;9596

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===== 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 AMTS 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  
IRRIT(NAU,VOMIT,DIARR)IRRIT(NOSE,THROAT,RESP TRACT)CNS  
DEPRESS(DIZZ,DROWS,WEAK,FTG, NAU,HEAD,UNCONSC)LOW BLOOD PRESS,MILD  
REVERSIBLE LIVER 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.

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

First Aid:EYE:SYMPT DVLP IMMEDIATELY MOVE TO FRESH AIR.FLUSH W/H2O FOR @LEAST  
15MINS,HOLD EYELIDS APART.SEEK IMMEDIATE 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 IMMEDIATELY

MED MOVE TO  
FRESH(SUPPLE)

===== Fire Fighting 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 VENT/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/SPREADING  
.RUNOFF OCCUR NOTIFY  
AUTHORITIES.(SUPPLEMENT)  
Neutralizing Agent: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  
EQPMT 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/ADMIN CNTRL SHOULD BE  
IMPLEMENTED TO RED EXP  
Ventilation:P

PROVIDE SUFFICIENT MECHANICAL(GENERAL &/OR LOCAL EXHAUST)VENTILATION 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 IMMED MED ATTN.KEEP WARM/QUIET.NOT BREATH BEGIN ART RESP;DIFFI BREATH ADMINISTER OXY. FIRE/EXPLO:PT.NEVER USE WELD/CUT TORCH ON/N

EAR DR(EVEN EMPTY)BECAUSE PROD(EVEN JUST RESIDUE)CAN IG NITE EXPLO. SPILL:PUMP/VAC TRANSF TO CNTNR.ABSORB UNRECOVERABLE.TRANSF CONTAM SOIL/MATL.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 DAT

VOC Grams/Liter:6.59

Viscosity:2.4CPS

Evaporation Rate & Reference:7.

70 (ETHYL ETHER)

Solubility in Water:100%

Appearance and Odor:TRANSPARENT LIQ,NEAT PHYS 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.DONT USE W/ALUMINUM EQPMT @TEMPS >120F.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous

Decomposition Products:HAZ COMBUST/DECOMPO PROD:CARBON  
DIOXIDE & CARBON MONOXIDE.

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

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

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