

SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO. -- ISOPROPYL ALCOHOL --
6810-00-983-8551

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

Product ID:ISOPROPYL ALCOHOL

MSDS Date:06/15/1993

FSC:6810

NIIN:00-983-8551

MSDS Number: BZNSL

=== Responsible Party ===

Company Name:SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO.

Address:1 SHELL PLAZA

Box:2463

City:HOUSTON

State:TX

ZIP:77001

Country:US

Info Phone Num:713-241-4819

Emergency Phone Num:713-473-9461

Preparer's Name:J.C. WILL

ETT

CAGE:86961

=== Contractor Identification ===

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

Ingred Name:ISOPROPYL ALCOHOL (SARA 313)

CAS:67-63-0

RTECS #:NT8050000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:400 PPM

ACGIH TLV:400 PPM/500STEL;9596

Ingred Name:VOLITILE ORGANIC CONTENT AS L

ISTED ON MSDS, 6.51 LB/GAL.
RTECS #:9999999VC
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50 (RAT) 5840 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE:MODERATELY IRRIT.SKIN:MILDLY
IRRIT.INHAL:MILD IRRIT TO NOSE/THROAT/RESP TRACT,CNS
DEPRESSION.INGEST:IRRIT GASTROINTESTINAL TRACT,ABDOMNAL PAIN &
VOMIT,SOMETIMES BLOODY.CNS DEPRESS,LOW BLOOD PRESSR UE,RAPID HEART
BEAT & LIVER DMG.
Effects of Overexposure:IRRIT EYE,SKIN,NOSE/THROAT/RESP TRACT,GI
TRACT.EARLY MOD CNS DEPRESS:GIDDINESS,HEAD,DIZZ,NAU.EXTREME CASES
UNCONSC,RESP DEPRESS,DEATH.LIVER DMG MAY BE EVIDENCED BY LOSS OF
APPETITE,JAUNDICE(YELLOWISH SKIN COLOR),SOMETIMES PAIN IN UPPER
ADBOMEN ON RIGHT SIDE.
Medical Cond Aggravated by Exposure:PRE-EXISTING EYE/SKIN/RESP
DISORDERES MAY BE AGGRAVATED BY EXPO TO THIS
PRODUCT.IMPAIRED
FUNCTION FROM PRE-EXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE
TO THIS PRODUCT.

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

First Aid:EYE:IMMED FLUSH W/PLENTY OF WATER FOR @LEAST 15MINS WHILE
HOLDING EYELIDS OPEN.GET MED ATTN.SKIN:FLUSH W/WATER.IRRIT OCCURS
GET MED ATTN.INHAL:REMOVE VICTIM TO FRESH AIR.PROVIDE OXY IF BREATH
DIFFI.GE T MED ATTN.INGEST:DO NOT GIVE LIQ IF UNCONSC/VERY
DROWSY.GIVE NO MORE THAN 2 GLASSES OF WATE
R.INDUCE VOMIT BY GIVING
30CC(2TABLE)SYRUP OF IPECAC.IF UNAVAILABLE GIVE 2 GLASSES OF
WATER.INDUCE (SUPPLEM)

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

Flash Point Method:TCC
Flash Point:53.0F,11.7C
Lower Limits:2
Upper Limits:12
Extinguishing Media:USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2.
Fire Fighting Procedures:CLEAR FIRE AREA OF UNPROT PERSONNEL.DO NOT
ENTER CONF FIRE SPACE W/O FULL BUNKER GEAR(HELMET W/FCSHIELD,BUNKER
COATS,GLOVES,RUBB

BOOTS),+PRESS NIOSH (FIRE/EXPL)

Unusual Fire/Explosion Hazard:APPROVED SCBA.COOL FIRE EXPO CNTNR
W/WATER.FLAMM.CNTNR EXPO TO HEAT COOL W/WATER TO PREVENT VAP
PRESSURE BUILDUP WHICH COULD RESULT IN CNTNR RUPTURE.

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

Spill Release Procedures:REMOVE ALL IGN SOURCES.GROUND HNDLG TO PREVENT
SPARK.REMOVE UNPROT PERSON.WEAR APPROP RESP/PROT CLOTH.STOP LEAK
W/O RISK.DIKE/CONTAIN.SUPPRESS VAP CLOUD W/WATERFOG.CONTAIN
R
UNOFF.REMOVE W/VAC TRK/PUMP TO STORAGE/SALVAGE VESS.FOUSH AREA
W/WATER.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP LIQ/VAP AWAY FRM
HEAT/SPARKS/FLAME.SURFACES SUFFICIENTLY HOT MAY IGN.VAP
ACCUMULATE/TRAVEL TO IGN SOURCES DISTANT FRM HDNLG SITE;FLASH-FIRE
OCCUR
Other Precautions:KEEP CNTNR CLSD WHEN NOT IN USE.USE W/ADEQU
VENTI.CNTNR EVEN EMPTIED CONTAIN EXPLO V
AP.DO NOT
CUT/DRILL/GRIND/WELD/PERFOMR SIMILAR OPERATIONS ON/NEAR CNTNR.DO
NOT PRESSURIZE DR CNTNR TO EMPTY THEM.STA TIC ELECTRIC MAY
ACCUMULATE.

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

Respiratory Protection:EXPO MAY/DOES EXCEED OCCUPATIONAL EXPO
LIMITS.USE NIOSH-APPROVED RESP TO PREVENT OVEREXPO.IAW 29CF
1910.134 USE EITHER AN ATMOSPHER-SUPPLYING RESP OR AN AIR-PURIFYING
RESP FOR ORGANIC VAPORS.
Ventilation:USE EXPLO-PROOF VENTILATION AS R
EQUIRED TO CONTROL VAP
CONCEN.
Protective Gloves:CHEM-RESIST,NITRILE,NEOPRENE,NAT RUBB.
Eye Protection:CHEM GOGGLES.
Other Protective Equipment:WEAR CHEM-RESIST CLOTH AS REQUIRE TO MIN
CONTACT-BEST PROT CLOTH.EYEWASH FOUNTAIN,SAFETY SHOWER AVAILABLE
FOR EMERGENCY.
Work Hygienic Practices:WASH W/SOAP/WATER BEF EAT/DRINK/SMOKE/USING
TOILET FACIL.LAUNDER CONTAMIN CLOTH BEF REUSE;AIR-DRY IN VENTI AREA
BEF WASH
Supplemental Safety and Health
1ST AID:VOMIT BY TOUCH FINGER TO BACK OF

VICTIM'S THROAT.KEEP HEAD BEL
HIPS WHILE VOMIT.GET MED ATTN.DR:VICTIM CHILD GIVE NO MORE THAN 1
GLASS OF WATER & 15CC(1TABE)SYRUP OF IPECAC.SYMP:LOSS OF GAG REF
LEX,CONVUL,UNCONSC OCCUR BEF EMESIS,GASTRIC LAVAGE SHOULD BE
CONSIDERED FOLOWING INTUBATION W/CUFFED ENDOTRACHEAL TUBE.

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

HCC:F2
Boiling Pt:B.P. Text:180F,82C
Melt/Freeze Pt:M.P/F.P Text:-127F,-88C
Vapor Pres:32 @68F
Vapor Density:2.1
Spec Gravity:0.79
Evaporation Rate & Reference:1.4, (N-BUTYL ACETATE=1)
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS, MOBILE LIQUID, MILD ODOR.

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

Stability Indicator/Materials to Avoid:YES
DO NOT STORE/HANDLE IN ALUMINUM EQPMT @TEMPS ABOVE 120F.
Stability Condition to Avoid:AVOID HEAT,SPARKS,FLAME,CONTACT W/STRONG
OXDIZING AGENTS.
Hazardous Decomposition Products:CARBON MONOXIDE & UNIDENTIFIED ORGANIC
COMPOUNDS MAY BE FO
RMED DURING COMBUSTION.

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

Waste Disposal Methods:KEEP OUT OF SURFACE WATER/SEWER/WATERWAYS
ENTER/LEAD TO SURFACE WATERS.NOTIFY AUTHORITIES IF EXPO TO GEN
PUBLIC/ENVIRO OCCURS/IS LIKELY TO OCCUR.PER EPA-RACA WASTE MATL-IGN
HAZ WASTE D001.REFER TO LAT EST EPA/STATE REGS REGARDING PROPER
DISPOSAL.

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