

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:713-24

1-4819

Emergency Phone Num:713-473-9461

Preparer's Name:J.C. WILLETT

CAGE:86961

=== Contractor Identification ===

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

Address:1 SHELL PLAZA

Box:2463

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State:TX

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Phone:713-473-9461

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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 TL

V:400 PPM/500STEL;9596

Ingred Name:VOLITILE ORGANIC CONTENT AS LISTED ON MSDS, 6.51 LB/GAL.

RTECS #:9999999VC

Other REC Limits:NONE RECOMMENDED

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===== 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

DE

PRESSION.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-EXISTI

NG 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.

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===== 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 L

IQ IF UNCONSC/VERY

DROWSY.GIVE NO MORE THAN 2 GLASSES OF WATER.INDUCE VOMIT BY GIVING

30CC(2TABLE)SYRUP OF IPECAC.IF UNAVAILABLE GIVE 2 GLASSES OF

WATER.INDUCE (SUPPLEM)

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===== 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 RUNOFF.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 VAP.DO NOT CUT/DRILL/GRIND/WELD/PERFORM SIMILAR OPERATIONS ON/NEAR CNTNR.DO NOT PRESSURIZE DR CNTNR TO EMPTY THEM.STATIC 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 REQUIRED 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.LAUNDRER CONTAMIN CLOTH BEF REUSE;AIR-DRY IN VENTI AREA BEF WASH

Suppl

emental Safety and Health

1ST AID: VOMIT BY TOUCH FINGER TO BACK OF VICTIM'S THROAT. KEEP HEAD BELOW HIPS WHILE VOMIT. GET MED ATTN. DR: VICTIM CHILD GIVE NO MORE THAN 1 GLASS OF WATER & 15CC (1 TAB) SYRUP OF IPECAC. SYMP: LOSS OF GAG REFLEX, CONVUL, UNCONSC OCCUR BEF EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING 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 OXIDIZING AGENTS.

Hazardous Decomposition Products:

CARBON MONOXIDE & UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

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

Waste Disposal Methods: KEEP OUT OF SURFACE WATER/SEWER/WATERWAYS ENTER/LEAD TO SURFACE WATERS. NOTIFY AUTHORITIES IF EXPOSED 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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