

SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO. -- ISOPROPYL ALCOHOL,31110 --
6810-00-543-7915

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

Product ID:ISOPROPYL ALCOHOL,31110

MSDS Date:06/15/1993

FSC:6810

NIIN:00-543-7915

MSDS Number: BFDSB

=== 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 Phon

e Num:713-241-4819

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

City:HOUSTON

State:TX

ZIP:77001

Country:US

Phone:713-473-9461

CAGE:86961

Company Name:SOLVENTS AND CHEMICALS, INC.

Address:4704 SHANK ROAD

Box:City:PEARLAND

State:TX

ZIP:77588-0490

Country:US

Phone:281-485-5377

CAGE:4W432

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

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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

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS,
RESPIRATORY & GI TRACT
S. ACUTE- HARMFUL IF INHALED/INGESTED. MAY
CAUSE CNS DEPRESSION, HEADACHE. MAY CAUSE EYE IRRITATION.
PROLONGED/REPEATED SKIN CONTACT MAY CAUSE DEFAT TING, IRRITATION.
CHRONIC- UNKNOWN.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, HEADACHE, DIZZINESS, NAUSEA,
VOMITING, TEARING, DEFATTING OF SKIN AND DRYNESS, IN EXTREME CASES,
UNCONSCIOUSNESS, RESPIRATORY DEPRESSION AND DEATH
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISOR
DERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:CALL PHYSICIAN IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH
WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:FLUSH WITH
WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED.
ORAL:IF CONSCI OUS, DRINK NO MORE THAN 2 GLASSES OF WATER & INDUCE
VOMITING. CALL A PHYSICIAN/POISON CONT
ROL CENTER IMMEDIATELY. NEVER
GIVE FLUID OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS
CONVULSIONS.

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

Flash Point Method:TCC
Flash Point:53.0F,11.7C
Lower Limits:2.0
Upper Limits:12.0
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, "ALCOHOL" FOAM, OR
DRY CHEMICAL. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Fire Fighting Procedures:DO NOT ENTER ANY ENCLOSED OR CONFINED AREA
WITHOUT PROPER PROTECTIVE

EQUIPMENT AND NIOSH-APPROVED
SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL
CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK.
CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES
OF IGNITION. VENTILATE AREA. REMOVE SPILL WITH PUMP(EXPLOSION
PROOF)/WITH NON-FLAMMABLE

ABSORBENT SUCH AS SAND. PLACE IN

CONTAINER FOR DISPOSAL. PREVENT LI QUID FROM ENTERING SEWERS,
WATERWAYS ORLOW AREAS.

Neutralizing Agent:DILUTE WITH WATER

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

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINERS IN
FLAMMABLE LIQUID STORAGE ROOM/CABINET. AVOID EXCESSIVE HEAT. KEEP
AWAY FROM INCOMPATIBLE MATERIALS.

Other Precautions:AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN
OR ON CLOTHING

. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR
DRINKING. KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER
EXPOSURE, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR OR SUPPLIED
AIR RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED
POSITIVE-PRESSURE SELF-CONTAINED BREAT HING APPARATUS.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF)
VENT

ILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:RUBBER, NEOPRENE FOR REPEATED CONTACT

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE
AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE.

Work Hygienic Practices:WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR
USING TOILET FACILITIES. WASH CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

NOTE TO PHYSICIAN: IF VICTIM IS A CH

ILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15CC (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

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

HCC:F3
NRC/State Lic Num:NOT RELEVANT
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:0.789
Evaporation Rate & Reference:1.4 (N-BUTYL ACETATE=1)
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS, MOBILE LIQUID - MILD ODOR
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120F
Stability Condition to Avoid:HIGH HEAT, SPARKS, OPEN FLAMES AND OTHER SOURCES OF IGNITION
Hazardous Decomposition Products
:MAY EMIT CARBON MONOXIDE, CARBON DIOXIDE AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS.

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

Waste Disposal Methods:DISPOSE IN AN APPROVED INCINERATOR OR CONTRACT WITH LICENSED CHEMICAL WASTE DISPOSAL SERVICE. DISCHARGE, TREATMENT OR DISPOSAL IS SUBJECT TO FEDERAL, STATE OR LOCAL LAWS. WHEN EMPTY, THOROUGHLY RINSE C ONTAINER WITH WATER BEFORE DISPOSAL.

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