

SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO. -- ISOPROPYL ALCOHOL,31110 --
6810-01-220-9907

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

Product ID:ISOPROPYL ALCOHOL,31110

MSDS Date:06/15/1993

FSC:6810

NIIN:01-220-9907

MSDS Number: BXFYT

=== 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:713-473-9461/800-424-9300(CHEMTREC)

Preparer's Name:J. C. WILLETT

CAGE:86961

=== Contractor Identification ===

Company Name:HOC INDUSTRIES, INC

Address:3511 N. OHIO

Box:2609

City:WICHITA

State:KS

ZIP:67219

Country:US

Phone:316-838-4663

CAGE:0A9L8

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

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===== Composition/Information on Ingredi

ents =====

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;9495

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

RTECS #:9999999VC

Other REC Limits:NOT RELEVANT

OSHA PEL:NOT RELEVANT

ACGIH TLV:NOT RELEVANT

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 5840 MG/KG.

Routes of Entry: Inh

alation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS,
RESPIRATORY & GI TRACTS. ACUTE- MAY CAUSE CNS DEPRESSION, LOW BLOOD
PRESSURE, RAPID HEART BEAT & LIVER DAMAGE. IN EXTREME CASES,
UNCONSCIOUSNESS, RESPIRATORY DEPRESSION & DEATH MAY OCCUR. EYE &
SKIN IRRITANT. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, HEADACHE, DIZZINESS, NAUSEA, LOSS

OF APPETITE, JAUNDICE, PAIN

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS, EYE PROBLEMS OR IMPAIRED LIVER OR RESPIRATORY FUNCTION
MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH
AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15
MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WA

TER. ORAL:DO

NOT IN DUCE VOMITING. IF CONSCIOUS, DRINK LARGEAMOUNT OF MILK/WATER. GET MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTIHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point Method:TCC

Flash Point:53.0F,11.7C

Lower Limits:2

Upper Limits:12

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, "ALCOHOL" FOAM, OR DRY CHEMICAL. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Fire Fighting Procedures:WEAR F

IRE FIGHTING PROTECTIVE EQUIPMENT AND A

NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:CONTAINERS MAY RUPTURE DUE TO HEAT OF

FIRE. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANCE FROM HANDLING SITE; FLASH-FIRE CAN RESULT.

===== 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:DO NOT PRESSU

RIZE, CUT, WELD, BRAZE, SOLDER, DRILL,

GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. ALWAYS GROUND AND BOND CONTAINER BEFORE TRANSF ERRING.

===== 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-CO

CONTAINED BREATHING APPARATUS.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF)
VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:NATURAL RUBBER, NEOPRENE

Eye Protection:SAFETY GLASSES+FACE SHIELD/CHEM 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

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

HCC:F2

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:0.79

Evaporation Rate & Reference:1.4 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS, MOBILE LIQUID - MILD ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, ALUMINUM CONTAINER ABOVE 120F.

Stability Condition to Avoid:HIGH HEAT, SPARKS, OPEN FLAMES AND OTHER
SOURCES OF IGNITION

Hazardous Decomposition Products:MAY FORM CARBON MONOXIDE, CARBON
DIOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS.

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

Waste Disposal Methods:DISPOSE IN AN APPROVED INCINERATOR OR CONTRACT
WI

THIS LICENSED CHEMICAL WASTE DISPOSAL SERVICE. DISCHARGE, TREATMENT OR DISPOSAL IS SUBJECT TO FEDERAL, STATE OR LOCAL LAWS. WHEN EMPTY, THOROUGHLY RINSE CONTAINER WITH WATER BEFORE DISPOSAL.

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