

SHELL OIL COMPANY -- ISOPROPYL ALCOHOL -- 6810-00-286-5435

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

Product ID:ISOPROPYL ALCOHOL

MSDS Date:11/04/1991

FSC:6810

NIIN:00-286-5435

MSDS Number: CCLQP

=== Responsible Party ===

Company Name:SHELL OIL COMPANY

Address:CORPORATE ENVIRONEMNTAL AFFAIRS

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:713-241-2252

Emergency Phone Num:713-473-9451

CAGE:SHELL

=== 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 OIL COMPANY PRODUCT SAFETY AND COMPLIANCE

Address:P.O. BOX 4320

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Phone:713-241-2252 /713-241-4819

CAGE:SHELL

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

Ingred Name:ISOPROPYL ALCOHOL (SARA 313)

CAS:67-63-0

RTECS #:NT8050000

Fraction

by Wt: 100%
Other REC Limits:NONE SPECIFIED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9596

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Hazards Identification
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LD50 LC50 Mixture:ORAL LD50 (RAT) = 5840 MG/KG
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: OVEREXPOSURE MAY LEAD TO
CENTRAL NERVOUS SYSTEM DEPRESSION, LEADING TO HEADACHES AND
DIZZINESS. EYE: MAY LEAD TO IRRITATION AND WILL I
NJURE EYE TISSUE
IF NOT REMOVED PROMPTLY. SKIN: MAY LEAD TO DERMATITIS. INGESTION:
MAY LEAD TO VOMITING. CHRONIC: PROLONGED SKIN CONTACT MAY CAUSE
DERMATITIS.
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT
CARCINOGENS.
Effects of Overexposure:OVEREXPOSURE MAY LEAD TO DIZZINESS, HEADACHES,
DERMATITIS AND EYE IRRITATION. HIGH VAPOR CONCENTRATIONS ARE
ANESTHETIC AND MAY HAVE OTHER
CENTRAL NERVOUS SYSTEM EFFECTS.
Medical Cond Aggravated by Exposure:PERSONS WITH SKIN, HEART,
RESPIRATORY, OR ANY OTHER MEDICAL CONDITION SHOULD USE CAUTION WHEN
HANDLING OR USING THIS PRODUCT.

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First Aid Measures
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First Aid:SKIN: IMMEDIATELY FLUSH WITH SOAP AND WATER. GET MEDICAL
ATTENTION IF NECESSARY. INHALATION: IMMEDIATELY REMOVE VICTIUM TO
FRESH AIR. GIVE CPR IF BREATHING IS STOPPED. GET MEDICAL ATTENTION.
EYE: IMME DIAT
ELY FLUSH WITH WATER FOR 15 MINUTES.GET MEDICAL
ATTENTION. INGESTION: GET PROMPT MEDICAL ATTENTION. DO NOT INDUCE
VOMITING. KEEP AT REST.

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Fire Fighting Measures
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Flash Point Method:TCC
Flash Point:=11.7C, 53.F
Lower Limits:2.0
Upper Limits:12.0
Extinguishing Media:WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2.
Fire Fighting Procedures:CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO
NOT ENTER CONFINED AREA W/OUT FULL BUNKER GEAR AND NIOSH S

CBA. COOL

FIRE EXPOSED CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard:CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH CAN CAUSE RUPTURE. COOL WITH WATER.

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

Spill Release Procedures:MINOR: ABSORB MATERIAL WITH CLAY, VERMICULITE, OR SIMILAR ABSORBENT MATERIAL. PLACE IN DISPOSAL CONTAINERS. MAJOR: DIKE & CONTAIN SPILL. ELIMINATE SOURCES OF I

GNITION. SHUT OFF

LEAKS. REMOVE LIQUID BY VACUUM OR ABSORBENT. FLUSH RESIDUE WITHWATER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:USE ONLY IN WELL VENTILATED WORK AREA. KEEP CONTAINERS CLOSED WHEN NOT IN USE. FLAMMABLE LIQUID; EMPTY CONTAINERS CAN CONTAIN LIQUID/VAPOR RESIDUE.

Other Precautions:DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXOPSE SU

CH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC

ELECTRICITY, OR OTHER SOURCES OF IGNITION. EXPLOSION HAZARD. EMPTY DRUMS SHOULD BE C COMPLETELY DRAINED, BUNGED & DISPOSED OF.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR. AIR-SUPPLIED OR FILTERING TYPE WITH ORGANIC VAPOR CARTRIDGES ARE RECOMMENDED.

Ventilation:LOCAL AND MECHANICAL EXHAUST RECOMMENDED. AVOID OPEN ELECTRICAL SOURCES NEAR PRODUCT VAPOR ARE

AS.

Protective Gloves:NEOPRENE, NITRILE, OR POLYVINYL ALCOHOL

Eye Protection:USE CHEMICAL SAFETY GOGGLES & FACESHIELD

Other Protective Equipment:SAFETY SHOES, EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:DO NOT TAKE INTERNALLY. AVOID SKIN CONTACT.

WASH SKIN AFTER USING PRODUCT. DO NOT EAT, DRINK OR SMOKE IN WORK AREA.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:F2

Boiling Pt:=82

.2C, 180.F
Melt/Freeze Pt:=-88.3C, -127.F
Vapor Pres:33
Vapor Density:2.1
Spec Gravity:0.79
Evaporation Rate & Reference:1.4 N-BUTYL ACETATE
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS,MOBIL LIQUID,MILD ODOR
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, ALUMINUM EQUIPMENT FOR STORAGE AND HANDLING.
Stability Condition to Avoid:HEAT, SPARKS, FLAME AND CONTACT WITH
STRONG OXIDIZING AGENTS. KEEP TEMPS. BELOW 120F AND AWAY FROM
ALUMINUM PRODUCTS.
Hazardous Decomposition Products:CARBON MONOXIDE AND UNIDENTIFIED
ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

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

Waste Disposal Methods:DISPOSE OF ALL WASTE IN ACCORDANCE WITH LOCAL,
STATE AND FEDERAL REGULATIONS. INCINERATION IS RECOMMENDED.

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