

SHELL OIL CO, SHELL CHEMICAL CO DIV -- ISOPROPYL ALCOHOL -- 6810-00-855-1158

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

Product ID:ISOPROPYL ALCOHOL

MSDS Date:11/04/1991

FSC:6810

NIIN:00-855-1158

MSDS Number: BFSWP

=== Responsible Party ===

Company Name:SHELL OIL CO, SHELL CHEMICAL CO DIV

Address:1 SHELL PLAZA

Box:2463

City:HOUSTON

State:TX

ZIP:77001

Country:US

Info Phone Num:713-241-4819

Emergency Phone

Num:713-473-9461,800-424-9300(CHEMTREC)

CAGE:MO111

=== Contractor Identification ===

Company Name:AMCO CHEMICAL CORP

Address:3RD - CYPRS

Box:208

City:OAKLAND

State:CA

ZIP:94607

Country:US

Phone:NOT IN BUSINESS! 911008P505A ???

CAGE:97984

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

CAGE:4N760

Company Name:HOC INDUSTRIES, INC

Address:3511 N. OHIO

Box:2609

City:WICHITA

State:KS

ZIP:67219

Countr

y:US
Phone:316-838-4663
CAGE:0A9L8
Company Name:SHELL OIL CO, SHELL CHEMICAL CO DIV
Address:1 SHELL PLAZA
Box:2463
City:HOUSTON
State:TX
ZIP:77001
Country:US
Phone:713-241-4819
CAGE:MO111
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
=====

Ingred Name:ISOPROPYL ALCOHOL (SARA III)
CAS:67-63-0
RTECS #:NT8050000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9394

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 5840 MG/KG.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYES: IRRITATION. SKIN: IRRITATION.
INHALATION: IRRITATING TO NOSE, THROAT, RESPIRATORY TRACT. MAY
RESULT IN CENTRAL NERVOUS SYSTEM DEPRESSION. INGE
STION: GI TRACT
IRRITATION, CAUSING ABDOMINAL PAIN AND VOMITING, SOMETIMES BLOODY.
ALSO MAY CAUSE CNS DEPRESSION, LOW BLOOD PRESSURE, RAPID HEART
BEAT, AND LIVER DAMAGE.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:EYES: IRRITATION. SKIN: IRRITATION. INHALATION:
NOSE, THROAT AND RESPIRATORY TRACT IRRITATION, CNS DEPRESSION,
GIDDINESS, HEADACHE, DIZZINESS, NAUSEA, UNCONSCIOUSNESS, RESPIRATORY
DEPRESSION, DEATH. INGESTION: GI TRACT IRRITATION, ABDOMINAL PAIN,

VOMITING, CNS DEPRESSION, LOW BLOOD PRESSURE, LIVER DAMAGE, JAUNDICE.

Medical Cond Aggravated by Exposure:PREEXISTING EYE, SKIN, RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED FUNCTION FROM PREEXISTING DISORDERS MAY BE ALSO BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

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

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING . FLUSH AREA WITH LARGE AMOUNTS OF WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. INHALATION: MOV E TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION: GIVE TWO GLASSES OF WATER AND INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Flash Point Method:TCC

Flash Point:=11.7C, 53.F

Lower Limits:2%

Upper Limits:12%

Extinguishing Media:WATER FOG, ALCOHOL F OAM, DRY CHEMICAL, CARBON DIOXIDE.

Fire Fighting Procedures:COOL FIRE EXPOSED CONTAINERS WITH WATER. DO NOT ENTER CONFINED FIRE SPACE WITH OUT FULL BUNKER GEAR, INCLUDING A POSITIVE PRESSURENIOSH APPROVED SCBA.

Unusual Fire/Explosion Hazard:CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE.

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

Spill Release Proced

ures:ELIMINATE IGNITION SOURCES. DIKE AND CONTAIN SPILL. CONTAIN RUN-OFF. REMOVE LIQUID WITH VACUUM TRUCK OR PUMP TO SALVAGE VESSEL. SOAK UP RESIDUE WITH AN ABSORBENT. PLACE IN SEALED CONTAINER FOR DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACERESIDUE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:USE WITH ADEQUATE VENTILATION. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

GROUND FIXED EQUIPMENT. BOND AND
GROUND TRANSFER CONTAINERS AND EQUIPMENT.

Other Precautions:DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT
TEMPERATURES ABOVE 120F. EMPTY CONTAINERS MAY CONTAIN EXPLOSIVE
VAPORS. DO NOT PRESSURIZE, CUT, DRILL, GRIND, WELD, BRAZE, SOLDER,
OR EXPOSE SUCH CONTAINERS TO HEAT, SPARKS AND FLAMES.

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

Respiratory Protection:IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL
EXPOSURE LIMITS,

USE A NIOSH-APPROVED ATMOSPHERE-SUPPLYING
RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

Ventilation:USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL
VAPOR CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS.

Protective Gloves:NEOPRENE, NITRILE, OR NATURAL RUBBER.

Eye Protection:CHEMICAL GOGGLES TO AVOID EYE CONTACT.

Other Protective Equipment:PROVIDE AN EYE WASH STATION AND SAFETY
SHOWER. WEAR CHEMICAL RESISTANT CLOTHING AS REQUIRED TO MINIMIZE
SKIN EXPOSURE.

Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING,
DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

AIR-DRY CONTAMINATED CLOTHING IN A WELL VENTILATED AREA BEFORE
LAUNDERING. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES
DISTANT FROM HANDLING SITE; FLASH-FIRE CAN RESULT.

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

HCC:F2

Boiling Pt:=82.2C, 180.F

Melt/Freeze Pt:=-88.3C, -127.F

Vapor Pres:32

V

apor 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.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

CONTACT WITH STRONG OXIDIZING AGENTS AND DO NOT STORE IN ALUMINUM
EQUIPMENT AT TEMPERATURES ABOVE 120F.

Stability Condition to Avoid:HEAT, SPARKS, FLAMES.

Hazardous Decompos

ition Products:CARBON MONOXIDE AND UNIDENTIFIED
ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

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

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States
of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.