

SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO. -- ISOPROPYL ALCOHOL --
6810-00-753-4993

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

Product ID:ISOPROPYL ALCOHOL

MSDS Date:06/15/1993

FSC:6810

NIIN:00-753-4993

MSDS Number: BFNGS

=== 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:JOHN P. SEPESI

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 Ingredients =====

Ingred Name:l

SOPROPYL 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

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SEE SIGNS AND SYMPTOMS.
Effects of Overexposure:INHALATION- HEADACHE, NASAL AND RESPIRATORY
IRRITATION, DIZZINESS, WEAKN
ESS, FATIGUE, NAUSEA, POSSIBLE
UNCONSCIOUSNESS, AND EVEN ASPHYXIATION. INGESTION- CAN CAUSE
NAUSEA, VOMITING, DIARRHEA, AND GAST ROINTESTINAL IRRITATION. EYES-
LIQUID ORVAPOR MAY CAUSE IRRITATION, BLURRED VISION, AND REDNESS.
SKIN- DERMATITIS.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INGESTION- IF CONSCIOUS, GIVE WATER. CALL A PHYSICIAN OR
CHEMTREC (POISON CONTROL) IMME
DIATELY. INDUCE VOMITING ONLY IF
ADVISED BY PHYSICIAN OR CHEMTREC (POISON CONTOL). INHALATION-
IMMEDIATELY MOVE V ICTIM TO FRESH AIR. IF VICTIM HAS STOPPED
BREATHING, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION. EYES
OR SKIN- IMMEDIATELY FLUSH AFFECTED AREA WITH PLENTY OF COOL WATER.
GET MEDICAL ATTENTION.

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

Flash Point Method:TCC
Flash Point:=11.7C, 53.F
Autoignition Temp:=362.8C, 685.F
Lower Limits:
2.5
Upper Limits:12.0
Extinguishing Media:DRY CHEMICAL, "ALCOHOL" FOAM OR CARBON DIOXIDE.
WATER MAY BE INEFFECTIVE.
Fire Fighting Procedures:USE WATER TO KEEP FIRE-EXPOSED CONTAINERS
COOL. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO
DISPERSE THE VAPORS AND TO PROTECT PERSONNEL.
Unusual Fire/Explosion Hazard:FIREFIGHTERS SHOULD WEAR SELF-CONTAINED
BREATHING APPARATUS IN THE POSITIVE-PRESSURE MODE WITH A FULL FACE
PIECE WHEN THERE IS A POSSIBILITY OF EXPOSURE.

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

Spill Release Procedures:WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING. CONTAIN SPILLED MATERIAL. TRANSFER TO SECURE CONTAINERS. WHERE NECESSARY, COLLECT USING ABSORBENT MEDIA. DETERMINE IF THE RELEASE IS RE PORTABLE.

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

Handling and Storage Precautions:PROTECT CONTAINER AGAINST PHYSICAL DAMAGE. DETACHED OR OUTSIDE STORAGE IS PREFERR ED. INSIDE STORAGE

SHOULD BE IN NFPA-APPROVED FLAMMABLE LIQUID AREA.

Other Precautions:AVOID UNCONTROLLED RELEASES OF THIS MATERIAL.

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

Respiratory Protection:USE NIOSH/MSHA-APPROVED RESPIRATORY PROTECTION EQUIPMENT. RESPIRATORS SHOULD BE SELECTED BASED ON THE FORM AND CONCENTRATION OF CONTAMINANT IN AIR AND IN ACCORDANCE WITH OSHA.

Ventilation:HANDLE IN THE PRESENCE OF ADEQUATE VENTILATION.

Protective Gloves:IMPERVIO
US GLOVES.

Eye Protection:SAFETY GLASSES OR GOGGLES.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

SMOKING SHOULD BE PROHIBITED IN STORAGE AREAS. AUTOMATIC SPRINKLER SYSTEM SHOULD BE PROVIDED IN THE STORAGE AREA. KEEP CLOSURE ON CONTAINER TO PREVENT LEAKAGE.

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

HCC:F2

Boiling Pt:=82.2C, 180.F

Melt/Freeze Pt:=-113.9C, -173.

F

Vapor Pres:33 MM HG

Vapor Density:2.0

Spec Gravity:0.784

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR AND COLORLESS.

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS.

Stability Condition to Avoid:HIGH TEMPERATURES AND OPEN FLAMES.

Hazardous Decomposition Products:SMOKE, FUMES OR HAZARDOUS DECOMPOSITION PRODUCTS.

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

Waste Disposal Meth

ods:ALL RECOVERED MATERIAL SHOULD BE PACKAGED,
LAELED, TRANSPORTED AND DISPOSED OF, OR RECLAIMED IN CONFORMANCE
WITH APPLICABLE LAWS AND REGULATIONS AND IN CONFORMANCE WITH GOOD
ENGINEERING PRACTICES.

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