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Product ID: ISOPROPYL ALCOHOL, 31110 MSDS Date:06/15/1993 FSC:6810 NIIN:01-190-2538 **MSDS Number: CDMNK** === Responsible Party === Company Name: SHELL OIL COMPANY Address: HEALTH, SAFETY AND ENVIRONMENT Box:4320 **City:HOUSTON** State:TX ZIP:77210 Country:US Info Phone Num:713-241-4819/4141/2252 FAX -6511 Em ergency Phone Num:713-473-9461/800-424-9300(CHEMTREC) CAGE:54527 === 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 Address:Box:2463 City:HOUSTON State:TX ZIP:77210 Country:US Phone:800-231-6950 CAGE:54527 

Ingred Name:ISOPROPYL ALCOHOL (SARA 313) CAS:67-63-0 RTECS #:NT8050000 Fr action by Wt: 100% Other REC Limits:NONE SPECIFIED OSHA PEL:400 PPM ACGIH TLV:400 PPM/500STEL;9495

Ingred Name:VOLATILE ORGANIC CONTENT AS LISTED ON MSDS: 6.51 LBS/GAL. RTECS #:9999999VC Other REC Limits:NONE RECOMMENDED OSHA PEL:NOT RELEVANT ACGIH TLV:NOT RELEVANT

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 5,840 MG/KG. Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO He alth Hazards Acute and Chronic: TARGET ORGANS: EYE, SKIN, CNS, **RESPIRATORY & GASTROINTESTINAL TRACTS. ACUTE- HARMFUL IF** INHALED/INGESTED. MAY CAUSE CNS DEPRESSION, HEADACHE. MAY CAUSE EYE IRRITATION. MAY INJURE EYE TISSUE IF NOT REMO VED PROMPTLY. PROLONGED/REPEATED SKIN CONTACT MAY CAUSE DRYNESS & MILD IRRITATION. CHRONIC- LIVER DAMAGE MAY OCCUR. Explanation of Carcinogenicity:NONE Effects of Overexposure: IRRITATION, HEADACHE, DIZZINESS, NAUSEA, VOMITING, TEARING, DEFATTIN G OF SKIN, UNCONSCIOUSNESS, RESPIRATORY DEPRESSION, LOSS OF APPETITE, DEATH Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT. First Aid:GET MEDICAL ATTENTION. EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN: FLUSH WITH PLENTY OF WATER. INHALED:REMOVE TO F RESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:IF CONSCIOUS . DRINK NOT MORE THAN 2 GLASSES OF WATER & INDUCE VOMITING. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. NEVER GIVE FLUID OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

Flash Point Method:TCC Flash Point:53.0F,11.7C Autoignition Temp:Autoignition Temp Text:750F Lower Limits:2 Upper Limits:12 Extinguishing Media:USE WATER FOG, CARBON D IOXIDE, "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 Measur

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH, VERMICULITE. PLACE IN A SUITABLE CONTAINER FOR DISPOSAL OR REC YCLING. PREVENT LIQUID FROM ENTERING SEWERS.

Neutralizing Agent:DILUTE WITH WATER

- Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINERS IN FLAMMAB
- LE 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. DO NOT INGEST.

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

- Respiratory Protection: IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER EXPOSURE, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR OR SUP PLIED
- AIR RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREAT HING APPARATUS.
- Ventilation: MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION 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 Hygi

enic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

## Supplemental Safety and Health

NOTE TO PHYSICIAN: IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15 ML (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSION OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

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## 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:0.79 Evaporation Rate & amp; Reference:1.4 (N-BUTYL ACETATE=1) Solubility in Water:COMPLETE (100%) Appearance and Odor:CLEAR, COLORLESS, MOBILE LIQUID - MILD ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, ALU MINUM EQUIPMENTS ABOVE 120F Stability Condition to Avoid:HIGH HEAT, SPARKS, OPEN FLAMES AND OTHER SOURCES OF IGNITION Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED.

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, THROUGHLY RINSE C ONTAINER WITH WATER BEFORE DISPOSAL.

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