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ASHLAND CHEMICAL CO. DIVISION OF ASHLAND OIL INC. -- ISOPROPANOL, 99% 6810-00-855-6160 Product ID: ISOPROPANOL, 99% MSDS Date:04/15/1987 FSC:6810 NIIN:00-855-6160 MSDS Number: BHYCX === Responsible Party === Company Name: ASHLAND CHEMICAL CO. DIVISION OF ASHLAND OIL INC. Box:2219 City:COLUMBUS State:OH ZIP:43216 Country:US Info Phone Num:614-790-3333/800-ASH-LA ND Emergency Phone Num:606-324-1133/800-274-5263 CAGE:5A188 === Contractor Identification === Company Name: ASHLAND CHEMICAL CO Address:5200 PAUL BLAZEL MEMORIAL PARKWAY Box:City:DUBLIN State:OH ZIP:43017 Country:US Phone:614-889-4505 CAGE:5A188 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: SANLO PRODUCTS CO Address:100 MANHATTAN AVE SUITE 103 Box:City:UNION CITY State:NJ

ZIP:07087 Country:US Phone:201-348-1684 CAGE:0K500

Ingred Name:ISOPROPYL ALCOHOL (SARA III) CAS:67-63-0 RTECS #:NT8050000 Fraction by Wt: >95.0% Other REC Limits:NONE SPECIFIED OSHA PEL:400 PPM/500 STEL ACGIH TLV:400 PPM/500STEL;9192

LD50 LC50 Mixture:ORAL LD50 (RAT) = 5840 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinoge

nicity: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 INJURE EYE TISSUE IF NOT REMOVED PROMPTLY. SKIN: MAY LEAD TO DERMATITIS. INGESTION: MAY LEAD TO VOMITING. CHRONIC: SKIN: DEFATTING AND DERMATITIS. LIVER ABNORMALITIES, KIDNEY DAMA.

Explanation of Carcinogenicity: ISOPROPANOL IS CLASSIFIED IARC-3(INSUFFICIENT EVIDENCE-HUM

AN).

Effects of Overexposure:SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION OF EYES. IRRITATION WITH DEFATTING AND DERMATITIS OF SKIN. INHALE: NASAL AND RESPIRATORY IRRITATION, CNS EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATI GUE, NAUSEA, HEADACHE, POSSIBLE UNCONSCIOUSNESS, ASPHYXIATION. INGEST: NAUSEA, VOMITING, AND DIARRHEA.

Medical Cond Aggravated by Exposure:PERSONS WITH SKIN, HEART, RESPIRATORY, OR ANY OTHER MEDICAL CONDITION SHOULD USE CAUTION WHEN HANDLING

## OR USING THIS PRODUCT.

	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 DIATELY FLUSH WITH WATER FOR 15 MINUTES.GET MEDICAL ATTENTION. INGESTION: GET PROMPT MEDICAL ATTENTION. INDUCE VOMITING. KEEP AT REST.

======= Fire Fighting Me

Flash Point Method:TCC Flash Point:53.0F,11.7C Lower Limits:2 Extinguishing Media:ALCOHOL FOAM, CARBON DIOXIDE OR DRY CHEMICAL. Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE. Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VERTILATION AND IGNITED BY PIL

OT LIGHTS, FLAMES, ETC.

Spill Release Procedures:MINOR: ABSORB MATERIAL WITH CLAY, VERMICULITE, OR SIMILAR ABSORBENT MATERIAL. PLACE IN DISPOSAL CONTAINERS. MAJOR: DIKE & CONTAIN SPILL. ELIMINATE SOURCES OF IGNITION. SHUT OFF LEAKS. REMOVE LIQUID BY VACUUM OR ABSORBENT. FLUSH RESIDUE WITHWATER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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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 SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. EXPLOSION HAZARD. EMPTY DRUMS SHOULD BE C OMPLETELY DRAINED, BUNGED & DISPOSED OF.

====== Exposure Controls/P

ersonal 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 AREAS. 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 Pra ctices: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

HCC:F2 Boiling Pt:B.P. Text:180F,82C Vapor Pres:33 Vapor Density:2.0 Spec Gravity:0.789 Evaporation Rate & amp; Reference:7.70 (ETHYL ETHER=1) Solubility in Water:COMPLETE Appearance and Odor:CLEAR COLORLESS LIQUID WITH ALCOHOL ODOR Percent Volatiles by Volume:10 0

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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

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ed 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.