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STARTEX CHEMICAL INC -- ISOPROPANOL 99 % -- 6810-00-855-6160

Product ID: ISOPROPANOL 99 % MSDS Date:01/29/1996 FSC:6810 NIIN:00-855-6160 Status Code:A MSDS Number: CJKFY === Responsible Party === **Company Name: STARTEX CHEMICAL INC** Address:5 HACKBERRY LANE Box:687 City:CONROE State:TX ZIP:77305 Country:US Info Phone Num:409-539-6244 Emergency Phone Num:409-539-6244 Chemtrec Ind/Phone:(800)424-9300 CAGE:0YFV5 === Contractor Identification === 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 Contract Num:SP0450-99-M-ND01 CAGE:4N760 Company Name: STARTEX CHEMICAL INC Address:5 HACKBERRY LANE Box:3087 City:CONROE State:TX ZIP:77305 Country:US Phone:409-539-6244 CAGE:0YFV5

Ingred Name: ISOPROPA

NOL CAS:67-63-0 RTECS #:NT8050000 = Wt:99. Other REC Limits:NONE RECOMMENDED OSHA PEL:980 MG/M3;400 PPM ACGIH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3;500 PPM

LD50 LC50 Mixture:TLV 400 PPM

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:TARGET ORGANS: EYE, SKIN, CNS,

RESPIRATORY AND GI TRACTS (HMIS). ACUTE - EYE CONTACT: IRR ITATING

AND WILL INJURE EYE TISSUE IF NOT REMOVED PROMPTLY. SKIN CONTACT: FREQUENT OR PROLONGED CONTACT MAY IRR ITATE AND CAUSE DERMATITIS. LOW ORDER OFTOXICITY. INHALATION: EXPOSURE TO CONCENTRATIONS ABOVE TLV ARE IRRITATING TO EYES AND RESPIRATORY TRACT, MAY CAUSE HEADACHE AND DIZZINESS, ARE ANESTHETIC AND MAY HAVE OTHER CNS EFFECTS. INGESTION: MINIMAL TOXICITY. SMALL AMOUNTS OF LIQUID ASPIRATED INTO LUNGS DURING INGESTION, OR FROM VOMITING, MAY CAUSE BRONCHIOP

NEUMONIA OR PULMONARY EDEMA. CHHRONIC - NO DA TA TO SHOW ADVERSE EFFECTS IN HUMAN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYE IRRITATION AND INJURY, SKIN IRRITATION AND DERMATITIS, RESPIRATORY TRACT IRRITATION, HEADACHE, DIZZINESS, PULMONARY EDEMA

First Aid:INHALATION: USING PROPER RESPIRATORY PROTECTION, IMMEDIATELY REMOVE THE AFFECTED VICTIM FROM EXPOSURE. ADMINISTER ARTIFICIAL RESPI

RATION IF BREATHING IS STOPPED. KEEP AT REST. CALL FOR PROMPT MEDICAL ATTENTION. EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNT OF WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION. SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH LARGE AMOUNT OF WATER; USE SOAP IF AVAILABLE. REMOVE CONTAMINATED CLOTHING, INCLUDING SHOES, AFTER FLUSHING HAS BEGUN. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. KEEP AT REST. GET PROMPT MEDICAL ATTENTION.

Flash Point Method:TCC Flash Point:=12.2C, 54.F Autoignition Temp:>350.C, 662.F Lower Limits:2.0 Upper Limits:12.7 Extinguishing Media: ALCOHOL FOAM, DRY CHEMICAL EXTINGUISHERS. TRY TO COVER LIQUID SPILL WITH FOAM. Fire Fighting Procedures: USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL. SHUT OFF "FUEL" TO FIRE. LEAK OF SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE VAPORS. Unusual Fire/Explosion Hazard:FLA MMABLE LIQUID, CAN RELEASE VAPORS THAT FORM FLAMMABLE MIXTURE AT TEMPERATURES AT OR ABOVE THE FLASHPOINT. Spill Release Procedures: REMOVE IGNITION SOURCES. PREVENT ADDITIONAL DISCHARGES, IF POSSIBLE. SMALL SPILLS: IMPLEMENT CLEANUP

PROCEDURES; LARGE SPILLS: IMPLEMENT CLEANUP PROCEDURES AND KEEP PUBLIC AWAY AND ADVISE AUTHORITIES. PREVENT LIQUID FROM ENTERING SEWERS, WATERCOURSES, OR LOW AREAS. CONTAIN WITH SAND OR EARTH. DO

NOT USE COMBUSTIBLE MATERIAL SUCH AS SAWDUST. RECOVER WITH EXPLOSION-PRROF PUMP OR SUITABLE ABSORBENT.

Handling and Storage Precautions:STORE IN A COOL, WELL VENTILATED AREA AWAY FROM IGNITION SOURCES, DIRECT SUNLIGHT, AND INCOMPATIBLES.
Other Precautions:FLAMMABLE. EMPTY CONTAINERS RETAIN PRODUCT RESIDUES (VAPORS, LIQUID) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER
OR DRILL. KEEP OUT OF REACH OF CHILDREN. AVOID

BREATHING VAPORS. DO NOT GET IN EYE, ON SKIN OR ON CLOTHING. AVOID INGESTION. DESTROY CONTAMINATED LEATHER CLOTHING.

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATORS MAY BE NECESSARY TO PREVENT OVEREXPOSURE BY INHILATION.

Ventilation:MECHANICAL DILUTION VENTILATION WHENEVER USED IN CONFINED SPACE, HEATED ABOVE AMBIENT TEMPERATURE, OR IS AGITATED. USE.EXP

LOSION PROOF VENTILATION EQUIPMENT. Protective Gloves:CHEMICAL RESISTANT GLOVES Eye Protection:CHEMICAL GOGGLES;SAFETY GLASSES WITH SIDE SHIELDS Other Protective Equipment:LONG SLEEVES, EYE BATH, WASHING FACILITY Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health
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HCC:F2 Boiling Pt:=82.2 C, 180.F B.P. Text:180-181F Melt/Freeze Pt:=-88.9C, -128.F Vapor Pres:96@100F Vapor Density:>1 Spec Gravity:0.79@68F Viscosity:2.7 CST@68F Evaporation Rate & amp; Reference:2.3 (N-BU ACETATE=1) Solubility in Water:100@68F Appearance and Odor:CLEAR, COLORLESS LIQUID - ALCOHOL ODOR Percent Volatiles by Volume:99 ====== Stability and Reactivity Data ==================================
Stability Indicator/Materials to Avoid:YES AMINES, ALKANOLAMINES, ALDEHYDES, STRONG OXIDIZING AGENTS, CHLORINATED C OMPOUNDS. Hazardous Decomposition Products:NONE
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Ecological:DO NOT ALLOW PRODUCT OR RUNOFF FROM FIRE CONTROL TO ENTER STORM OR SANITORY SEWERS, LAKE, RIVERS, STREAMS OF PUBLIC WATERWAYS. MAY BE HARMFUL TO AQUATIC LIFE. AQUATIC TOXICITY RATING (TLM 96) = 10 TO 100 PPM. NO FOOD CHAIN CONCENTRATION POTENTIAL. BIODEGRADABILITY= RAPID VOLATILIZATION.

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

Transport Information: CANADIAN TDG DESCRIPTION (ROAD & RAIL): SHIPPING NAME: ISOPROPANOL. CLASS DESCRIPTION: CLASS 3, FLAMMABLE LIQUID, PACKING GROUP II. UN NUMBER: 1219.

SARA Title III Information: UNDER THE PROVISIONS OF TITLE III, SECTION

311/312 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: IMMEDIATE HEALTH, DELAYED HEALT H, FIRE. CERCLA: IF THIS PRODUCT IS ACCIDENTALLY SPILLED, IT IS NOT SUBJECT TO ANY SPECIAL REPORTING UNDER THE REQUIREMENTS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA). WE RECOMMEND YOU CONTACT LOCAL AUTHORITIES TO DETERMINE IF THERE MAY BE OTHER LOCAL REPORT

ING REQUIREMENTS.

Federal Regulatory Information: THIS PRODUCT IS LISTED ON THE TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY.

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