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LCI (LUCIER CHEMICAL INDUSTRIE -- FLUOROSILICIC ACID

MSDS Safety Information

_____ FSC: 6810 NIIN: 00-935-5817 MSDS Date: 03/01/1996 MSDS Num: BZQWW Product ID: FLUOROSILICIC ACID MFN: 01 **Responsible Party** Cage: 0K1E4 Name: LCI (LUCIER CHEMICAL INDUSTRIES) LTD Box: 49000 City: JACKSONVILLE BEACH FL 3 2240-9000 Info Phone Number: 904-241-1200 Emergency Phone Number: 904-241-1200, CHEMTREC 800-424-9300 Preparer's Name: J. MICHAEL COATES Review Ind: Y Published: Y ______ Contractor Summary _____ Cage: 0A9L8 Name: HOC INDUSTRIES, INC Address: 3511 N. OHIO Box: 2609 City: WICHITA KS 67219 Phone: 316-838-4663 Cage: 0K1E4 Name: LUCIER CHEMICAL INDUSTRY DBA LCI LTD Address: 415 PABLO AVE N Box: 49000 City: JACKSONVILLE BEACH FL 32240-9000 Phone: 904-241-1200 _____ Item Description Information _____ Item Manager: S9G Item Name: HYDROFLUOSILICIC ACID Specification Number: NONE Type/Grade/Class: NONE Unit of Issue: DR Quantitative Expression: 0000000140LB UI Container Qty: 0 Type of Container: DRUM _____ Ingredients _____

Cas: 16961-83-4 RTECS #: VV8225000 Name: FLUOROSILIC ACID OR HYDROFLUOROSILICIC ACID OR HEXAFLUOROSILIC ACID % Wt: 100 Other REC Limits: NONE RECOMMENDED OSHA PEL: NOT ESTABLISHED ACGIH TLV: NOT ESTABLISHED

Health Hazards Data

LD50 LC50 Mixture: TLV=2.5 MG/M3 (AS F) Route Of Entry Inds - Inhalation: YES Skin: YES Ingestion: NO Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: ACUTE: LIQUID OR VAPORS CAUSE SEVERE IRRITATION AND BURNS WHICH MAY NOT BE APPARENT FOR HOURS. CAN CAUSE SEVERE IRRITATION TO THE LUNGS, NOSE, AND THROAT. IF SWALLOWED, CAN CAUSE SEVERE DAMAGE TO THRO AT AND STOMACH. CHRONIC: PROLONGED OR REPEATED EXPOSURE MAY CAUSE BONE CHANGES, ULCERATION OF NOSE/THROAT, FLUOROSIS...

Explanation Of Carcinogenicity: NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCIN OGEN.

Signs And Symptions Of Overexposure: INHALED-IRRITATION, COUGH. SKIN-SEVERE IRRITATION. EYES-SEVERE IRRITATION. INGESTED-SEVERE DAMAGE TO THROAT AND STOMACH.

Medical Cond Aggravated By Exposure: ANY SKIN CONDITION AND/OR PREEXISITING RESPIRATORY DISEASE INCLUDING ASTHMA AND EMPHYSEMA.

First Aid: IN ALL CASES GET IMMEDIATE MEDICAL ATTENTION! EYES-FLUSH WITH WATER FOR 15 MINUTES, LIFT LIDS. SKIN-REMOVE CONTAMINATED CLOTHES WHILE SHOWERING IN FLOODING AMOUNTS OF WATER. INHALED-REMOV

E TO FRESH AI R. ADMINISTER OXYGEN

OR ARTIFICIAL RESPIRATION AS NEEDED. INGESTED-IF CONSCIOUS, GIVE LOTS OF WATER OR MILK TO DILUTE. DO NOT INDUCE VOMITING!!

Handling and Disposal

Spill Release Procedures: ISOLATE AREA & amp; DENY ENTRY. WEAR ACID-PROOF PROTECTIVE CLOTHING & amp; GEAR. STOP LEAK IF FEASIBLE. CONTAIN SPILL. KEEP OUT OF SEWERS & amp; WATERWAYS. ABSORB WITH INERT MAT ERIAL (EG SAND) & amp; SCOOP UP & amp; PLACE IN A COMPATIBLE CONTAINER FOR DISPOSAL. REPORT SPILL. Neutralizing Agent: DLA-: 20% SODIUM BICARBONATE SOLUTION. Waste Disposal Methods: PER MFR PRODUCT NOT LISTED AS RCRA HAZWASTE. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. DLA-: EPA/RCRA HAZWASTE NUMBER D002 MAY APPLY TO UNUSED/UNCONTAMINATE D PRODUCT. Handling And Storage Precautions: DLA-: STORE IN A COOL, DRY PLACE AWAY FROM **TEMPERATURES ABOVE 220F AN** D INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE. Other Precautions: NONE SPECIFIED BY MANUFACTURER. _____ Fire and Explosion Hazard Information _____ Extinguishing Media: USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL CHEMICAL PROTECTIVE SUIT. USE WATER TO COOL FIRE EXPOSED CONTAINERS. Unusual Fire/Explosi on Hazard: REACTS WITH MAY METALS TO PRODUCE FLAMMABLE & EXPLOSIVE HYDROGEN GAS. DECOMPOSITION MAY PRODUCE TOXIC AND CORROSIVE FUMES OF FLUORIDES. _____ Control Measures Respiratory Protection: IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH ACID CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 19 10.134. Ventilation: USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S). Protective Gloves: ACID-PROOF: PVC, NEOPRENE, VITON. Eve Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES. Other Protective Equipment: EYE WASH STATION & SAFETY SHOWER. ACID-PROOF BOOTS (SAME AS GLOVES). Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE. Supplemental Safety and Health : PH GIVEN IS FOR 1% AQUEOUS SOLUTION. MSDS PROVIDED BY CAGE 0A9L8 FOR CONTRACT NUMBER SP0450-96-M-L-201. _____ Physical/Chemical Properties _____ HCC: C1 B.P. Text: 222F,106C M.P/F.P Text: -4F,-20C Decomp Text: 227F,108C Vapor Pres: 24 Vapor Density: UNKNOWN Spec Gravity: 1.234 PH: 1.2 Viscosity: UNKNOWN Evaporation Rate & amp; Reference: UNKNOWN Solubility in Water: COMPLETE Appearance and Odo

r: WATER-WHITE TO STRAW YELLOW FUMING LIQUID; PUNGENT ODOR. Corrosion Rate: UNKNOWN

Reactivity Data _____ Stability Indicator: YES Stability Condition To Avoid: DLA-: HEAT ABOVE 220F. CONTACT WITH INCOMPATIBLE MATERIALS. Materials To Avoid: METAL, GLASS, STONEWARE, ALKALI, STRONG CONCENTRATED ACIDS. Hazardous Decomposition Products: WHEN HEATED TO DECOMPOSITION, PRODUCES TOXIC & CORROSI VE FUMES OF HYDROGEN FLUORIDE, SILICA TETRAFLUORIDE, HYDROGEN GAS. Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: WILL NOT OCCUR. _____ **Toxicological Information** _____ _____ **Ecological Information** ______ **MSDS** Transp ort Information _____ _____ Regulatory Information _____ Other Information ______ ______ Transportation Information _____ **Responsible Party Ca** ge: 0K1E4 Trans ID NO: 93278 Product ID: FLUOROSILICIC ACID MSDS Prepared Date: 03/01/1996 Review Date: 08/14/1996 **MFN: 1** Net Unit Weight: 110 LB Multiple KIT Number: 0 **Review IND: Y** Unit Of Issue: DR Container QTY: 0 Type Of Container: DRUM Additional Data: PSN IS PER MFR MSDS. PACKAGING IS PER DLSC-TIR. _____ Detail DOT Information _____

DOT PSN Code: GMU DOT Proper Shipping Name: FLUOROSILICIC

ACID Hazard Class: 8 UN ID Num: UN1778 DOT Packaging Group: II Label: CORROSIVE Special Provision: A6,A7,B2,B15,N3,N34,T12,T27 Packaging Exception: NONE Non Bulk Pack: 202 Bulk Pack: 242 Max Qty Pass: 1 L Max Qty Cargo: 30 L Vessel Stow Reg: A _____ Detail IMO Information _____ IMO PSN Code: HLP IMO Proper Shipping Name: FLUOROSILICIC ACID IMDG Page Number: 8176 UN Number: 1778 **UN Hazard Class:** 8 IMO Packaging Group: II Subsidiary Risk Label: -EMS Number: 8-06 MED First Aid Guide NUM: 750 _____ Detail IATA Information _____ IATA PSN KC IATA UN ID Num: 1778 IATA Proper Shipping Name: FLUOROSILICIC ACID IATA UN Class: 8 IATA Label: CORROSIVE UN Packing Group: II Packing Note Passenger: 809 Max Quant Pass: 1L Max Quant Cargo: 30L Packaging Note Cargo: 813 _____ _____ Detail AFI Information _____ AFI PSN KC AFI Proper Shipping Name: FLUOROSILICIC ACID AFI Hazard Class: 8 AFI UN ID NUM: UN1778 AFI Packing Group: II Special Provisions: P5, A6, A7, N34, N3 Back Pack Reference: A12.3 ______ HAZCOM Label

Product ID: FLUOROSILICIC ACID Cage: 0K1E4 Company Name: LUCIER CHEMICAL INDUSTRY DB

A LCI LTD Street: 415 PABLO AVE N PO Box: 49000 City: JACKSONVILLE BEACH FL Zipcode: 32240-9000 Health Emergency Phone: 316-838-4663 Label Required IND: Y Date Of Label Review: 08/14/1996 Status Code: C Label Date: 08/14/1996 Year Procured: 1996 Origination Code: F Eye Protection IND: YES Skin Protection IND: YES Signal Word: WARNING **Respiratory Protection IND: YES** Health Hazard: Moderate Contact Hazard: Moderate Fire Hazard: None **Reactivity Hazard: Slight** Hazard And Precautions: CORROSIVE! LIQU ID/VAPORS CAUSE SEVERE IRRITATION & amp; BURNS.CAN CAUSE SEVERE IRRITATION TO THE LUNGS, NOSE & amp; THROAT.IF SWALLOWED, CAN CAUSE SEVERE DAMAGE TO THROAT & STOMACH.PROLONGED/REPEATED EXPOSURE MAY CAUSE BONE CHANGES, ULCERATION OF NOSE/THROAT, FLUOROSIS. TARGET ORGANS:SKIN, EYS, LUNGS, BONES. FIRST AID: IN ALL CASES GET IMMEDIATE MEDICAL ATTENTION!EYES-FLUSH WITH WATER FOR 15 MINUTES,LIFT LIDS.SKIN- REMOVE CONTAMINATED CLOTHES WHILE SHOWERING IN FLOODING AMOUNTS OF WATER.INHALED-REMOVE TO FRESH AIR.ADMINISTER OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED.INGESTED-IF CONSCIOUS, GIVE LOTS OF WATER OR M ILK TO DILUTE.DO NOT **INDUCE VOMITING!!** _____

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