View NSN Online: https://aerobasegroup.com/nsn/6810-00-935-5817

LCI (LUCIER CHEMICAL INDUSTRIE -- FLUOROSILICIC ACID

MSDS Safety Information

FSC: 6810

NIIN: 00-935-5817 MSDS Date: 03/01/1999 MSDS Num: CGXCK

Product ID: FLUOROSILICIC ACID

MFN: 02

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: 904-241-1200/800-424-9300(CHEMTREC)

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

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Ingredients

Cas: 16961-83-4 RTECS #: VV8225000

Name: HYDROFLUOROSILICIC ACID

% Wt: 23 - 27

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED ACGIH TLV: 2.5 MG/M3 AS F

Cas: 7732-18-5

RTECS #: ZC0110000

Name: WATER % Wt: 73 - 77

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT RELEVANT ACGIH TLV: NOT RELEVANT

Health Hazards Data

LD50 LC50 Mixture: LD50 (ORAL, GUINEA PIG) IS 200 MG/KG.

Route Of Entry Inds - Inhalation: YES

Skin: YES

Carcinogenicity Inds - NTP: NO

IARC: NO OSHA: NO

Effects of Exposure: ACUTE: LIQUID OR VAPOR CAN 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 TH ROAT AND STOMACH. CHRONIC: PROLONGED EXPOSURE COULD RESULT IN BONE CHANGES, CORROSIVE

EFFECTS ON MUCOUS MEMBRANES INCLUDING ULCERATION OF NOSE, THROAT AND BRONCHIAL TUBES, COUGH, SHOCK, PULMONARY EDE MA, FLUOROSIS, COMA AND DEATH. Explanation Of Carcinogenicity: NONE

Signs And Symptions Of Overexposure: ACUTE: LIQUID OR VAPORS CAN CAUSE SEVERE IRRITATION & DE APPARENT FOR HOURS. CAN CAUSE SEVERE IRRITATION TO THE LUNGS, NOSE AND THROAT. IF SWALLOWED, CAN CAUSE SEVERE DAMAGE TO THR OAT AND STOMACH. CHRONIC: PROLONGED EXPOSURE COULD RESULT IN

BONE CHANGES, CORROSIVE EFFECTS ON MUCOUS MEMBRANES INCLUDING ULCERATION OF NOSE, THROAT AND BRONCHIAL TUBES, COUGH, SHOCK, PULMONARY EDEM A, FLUOROSIS, COMA AND DEATH.

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

First Aid: GET IMMEDIATE MEDICAL HELP FOR ALL CASES OF EXPOSURE.

EYES/SKIN:FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN.

INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN

IF NECESSARY, ORAL:DO NOT I

NDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF MILK OR WATER. NOTE TO PHYSICIAN: LATE ONSET (PULMONARY EDEMA UP TO 48 HOURS). TREAT SEVERE BURNS SIMILAR TO HYDROFLUORIC ACID EXPOSURE.

Handling and Disposal

Spill Release Procedures: WEAR NIOSH APPROVED AIR SUPPLIED ACID SUIT. DIKE OR CONTAIN MATERIAL. DO NOT ALLOW SOLUTION TO ENTER SEWERS OR SURF ACE WATER.

NEUTRALIZE SPILL WITH WATER & amp; LIME(HYDRATED LIME). TAKE UP WITH SAND OR NO N-COMBUSTIBLE ABSORBENT MATERIAL AND PLACE IN SUITABLE CONTAINER FOR DISPOSAL. PROVIDE VENTILATION AND BE WARY OF HYDROGEN GENERATION UPON REACTION WITH SOME METALS. CONTACT CHEMTREC 800-424-9300.

Neutralizing Agent: WATER AND LIME(HYDRATED LIME).

Waste Disposal Methods: DISPOSER MUST COMPLY WITH LOCAL, STATE AND FEDERAL DISPOSAL OR DISCHARGE LAWS.

Handling And Storage Precautions: STORE CONTAINER

S IN COOL, DRY, WELL

VENTILATED AREA AWAY FROM SOURCES OF HEAT OR IGNITION. DO NOT STORE IN GLASS OR STONEWARE. USE NON-SPARKING TOOLS. KEEP SEPARATE FROM ALKALI METALS, OXIDIZING AGENT S. COMBUSTIBLE SOLIDS AND ORGANIC PEROXIDES.

Other Precautions: THIS CONTAINER IS HAZARDOUS WHEN EMPTY BECAUSE THE EMPTY CONTAINER STILL RETAINS PRODUCT RESIDUE. ALL LABELED HAZARD PRECAUTIONS MUST BE OBSERVED. AVOID BREATHING FUMES. IF PUNGENT, IRRITATING ODOR CA N BE DETECTED, WORKERS ARE BEING OVER

-EXPOSED. EYE WASH & DE SAFETY SHOWER SHOULD BE AVAILABLE IN ALL A CID HANDLING AREAS.

Fire and Explosion Hazard Information

Flash Point Text: NONE

Lower Limits: NOT RELEVANT Upper Limits: NOT RELEVANT

Extinguishing Media: USE AGENT WHICH IS APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures: WEAR NIOSH APPROVED SELF-CONTAINED ACID SUITS.

Unusual Fire/Explosion Hazard: REAC

TS WITH MANY METALS TO PRODUCE FLAMMABLE AND

EXPLOSIVE HYDROGEN GAS. KEEP CONTAINER COOL WITH WATER, USING FOG NOZZLES, AS DECOMPOSITION WILL OCCUR ABOVE 222F AND PRODUCE TOXIC AND CORROSIVE FUMES OF FLUORIDES.

Control Measures

Respiratory Protection: A NIOSH APPROVED CARTRIDGE RESPIRATOR WITH FULL FACE SHIELD. CHEMICAL CARTRIDGE SHOULD PROVIDE PROTECTION AGAINST ACID FUMES, (HYDROGEN FLUORIDE). FOR CONCENTRATIONS GREATER THAN 20PPM, A NIOSH APPROV ED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE SHIELD SHOULD BE USED.

Ventilation: GENERAL OR LOCAL EXHAUST SYSTEMS SUFFICIENT TO MAINTAIN VAPORS BELOW 2.5MG/M3(AS F).

Protective Gloves: ACID PROOF

Eye Protection: TIGHT FITTING CHEMICAL SPLASH GOGGLES WITH FULL FACE SHIELD 8 INCH MINIMUM

Other Protective Equipment: EYE WASH STATION, QUICK DRENCH SHOWER AND ACID-PROOF CLOTHING, GLOVES AND SHOES. USE NIOSH

APPROVED ACID PROOF SUIT AND

BOOTS WHERE LIQUID OR HIGH VAPOR CONCENTRATION IS POSSIBLE.

Work Hygienic Practices: CONTACT LENSES SHOULD NOT BE WORN.

Supplemental Safety and Health: DOT CHEMICAL NAME: FLUOROSILICIC ACID.

SYNONYMS: HYDROFLUOSILICIC ACID, FLUOSILICIC ACID, HEXAFLUOSILICIC ACID.

CHEMICAL FAMILY: INORGANIC ACID. FORMULA: H2SIF6. NIOSH REGISTRY NUMBER: V V 8225000. CA S NUMBER: 16961-83-4. NOTE: N/A INDICATES NOT APPLICABLE WHERE

SHOWN.

============ Physical/Chemical Properties _____ HCC: C1 NRC/State LIC No: NOT RELEVANT Boiling Point: =105.6C, 222.F Melt/Freeze Pt: =-15.4C, 4.F Decomp Temp: =105.6C, 222.F Vapor Pres: 24 @ 77F Vapor Density: UNKNOWN Spec Gravity: 1.234 @25% PH: 1.2 % Viscosity: UNKNOWN Evaporation Rate & Discrete Reference: UNKNOWN Solubility in Water: COMPLETE Appearance and Odor: WATER WHITE TO STRAW YELLOW, BURNING LIQUID WITH A PUNGENT **ODOR** Corrosion Rat e: UNKNOWN Reactivity Data _____ Stability Indicator: YES Stability Condition To Avoid: EXCESSIVE HEAT. Materials To Avoid: METALS, STRONG CONCENTRATED ACIDS, STRONG ALKALIS, GLASS, STONEWARE. Hazardous Decomposition Products: HYDROGEN FLUORIDE, SILICA TETRAFLUORIDE AND HYDROGEN GAS. Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: WILL NOT OCCUR.

Toxicological Information

Toxicological Information: HEALTH INFORMATION: OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): 2.5 MG/M3 (AS F). ACGIH THRESHOLD LIMIT VALUE (TLV): 2.5 MG/M3 (AS F).

TOXIC DATA: LD50 200 MG/KG (ORAL-GUINEA PIG).

Ecological Information

MSDS Transport Information

Transport Information: DOT PROPER SHIPPING NAME: FLUOROSILIC ACID. DOT HAZARD CLASS: 8 (CORROSIVE). PACKING GROUP: II. SUBSIDIAY HAZARD CLASS: N/A.

IDENTIFICATION NUMBER: UN 1778. PLACARDING REQUIREMENTS: CORROSIVE.

Regulatory Information

Federal Regulatory Information: EP

A HAZARDOUS SUBSTANCE: NO. REPORTABLE

QUANTITY: N/A. RCRA STATUS OF UNUSED MATERIAL IF DISCARDED: NOT LISTED.

HAZARDOUS WASTE NUMBER: NOT LISTED.

Other Information

Other Information: ADDITIONAL COMMENTS: FOR INTERNATIONAL TRANSPORTATION. FLUOROSILIC ACID IS REGULATED BY THE INTERNATIONAL MARITIME ORGANIZATION (IMO) AND THE INTERNATIONAL AIR TRANSPORT (IATA) FOR VESSEL AND AIR

MOVE MENT

AS A CLASS 8. PACKAGING, MARKING, LABELING AND SHIPPING PAPER DESCRIPTION MUST PRECISELY REFLECT REGULATION FOR EXPORT MOVEMENT.

Transportation Information

Responsible Party Cage: 0K1E4

Trans ID NO: 93279

Product ID: FLUOROSILICIC ACID MSDS Prepared Date: 03/01/1999

Review Date: 07/29/2000

MFN: 2

Net Unit Weight: 140 LBS Multiple KIT Number: 0

Review IND: Y Unit Of Issue

: DR

Container QTY: 0

Type Of Container: DRUM

Additional Data: PROPER SHIPPING NAME, UN ID NUMBER, PACKING GROUP AND DOT

HAZARD CLASS PER MSDS. "FORBIDDEN BY AIR". THE MAXIMUM ALLOWED BY PASSENGER

AIRCRAFT IS 1L AND BY AIR CARGO IS: 30 LITERS.

Detail DOT Information

DOT PSN Code: GMU

DOT Proper Shipping Name: FLUOROSILICIC ACID

Hazard Class: 8 UN ID Num: UN1778 DOT Packaging Grou p: 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 Num ber: 8-06

MED First Aid Guide NUM: 750

Detail IATA Information

IATA PSN Code: XXX

Detail AFI Information

AFI PSN Code: XXX

HAZCOM Label

Product ID: FLUOROSILICIC

ACID

Cage: 0K1E4

Company Name: LUCIER CHEMICAL INDUSTRY DBA LCI LTD

Street: 415 PABLO AVE N

PO Box: 49000

City: JACKSONVILLE BEACH FL

Zipcode: 32240-9000

Health Emergency Phone: 904-241-1200/800-424-9300(CHEMTREC)

Label Required IND: Y

Date Of Label Review: 04/19/2001

Status Code: C

MFG Label NO: UNKNOWN Label Date: 06/05/1998 Year Procured: 2000

Origination

Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: DANGER
Health Hazard: Severe
Contact Hazard: Severe

F

ire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: CORROSIVE! TARGET ORGANS:EYES, SKIN, RESPIRATORY & DESCRIPTION OF MOUTH, THROAT, STOMACH. INHALE:SEVERE IRRITATION, PAIN. CHRON IC- MAY CAUSE FLUOROSIS, BONE CHANGES. STORE IN VENTILATED AREA, AWAY FROM INCOMPATIBLES. PICK UP SPILL WITH SAND. PLACE IN SUITABLE CONTAINER FOR DISPOSAL. FIRST AID- GET IMMEDIATE MEDICAL HELP FOR A LL CASES OF EXPOSUR E.

EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST15 MINUTES. HOLD EYELIDS OPEN. INHALED:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:DO NOT INDUCE VOMITING. IF CONSCIO US, DRINK LARGE AMOUNT OF MILK OR WATER.

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