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LCI LTD. -- SODIUM FLUORIDE

\_\_\_\_\_ FSC: 6810 NIIN: 00-680-1079 MSDS Date: 03/01/1999 MSDS Num: CJQBF Product ID: SODIUM FLUORIDE MFN: 01 **Responsible Party** Cage: TO289 Name: LCI LTD. Address: UNK Box: 49000 City: JACKSONVILLE BEACH FL 32240-9000 Info Phon e Number: 304-241-1200 Emergency Phone Number: 904-241-1200 \_\_\_\_\_ Item Description Information \_\_\_\_\_ Item Manager: S9G Item Name: SODIUM FLUORIDE, TECHNICAL Specification Number: NONE Type/Grade/Class: NONE Unit of Issue: BG Quantitative Expression: 00000000100LB UI Container Qty: 1 Type of Container: BAG \_\_\_\_\_ Ingredients \_\_\_\_\_ \_\_\_\_\_ Cas: 7681-49-4 RTECS #: WB0350000 Name: SODIUM FLUORIDE Percent by Wt: 97.7 EPA Rpt Qty: 1000 LBS DOT Rpt Qty: 1000 LBS \_\_\_\_\_\_ Health Hazards Data \_\_\_\_\_ LD50 LC50 Mixture: LD50 = 180 MG/KG (RAT) Route Of Entry Inds - Inhalation: YES Skin: YES Ingestion: YES Carcinogenicity Inds - NTP: NO IARC: NO OSHA: NO Effects of Exposure: ACUTE: INHALATION OF DUST OR MIST MAY CA USE SEVERE MUCOUS

MEMBRANE IRRITATION AND BURNS. EFFECTS MAY NOT BE IMMEDIATELY APPARENT, ESPECIALLY WITH DILUTE SOLUTIONS. CHRONIC: CAUSES SEVERE SKIN IRRITATI ON AND BURNS. INGESTION OR INHALATION MAY BE HARMFUL AND POSSIBLY FATAL DEPENDING ON SEVERITY AND LENGTH OF OVER EXPOSURE. CHRONIC OVER EXPOSURE MAY CAUSE FLUOROSIS. PRODUCT MAY BE ABSORBED THROUGH TH E SKIN AND PRODUCE SIGNS OF FLUOROSIS SUCH AS WEIGHT LOSS, BRITTLENESS OF BONES, ANEMIA, WEAKNESS AND STIFFNESS OF JOINTS. IN

TERNAL BLEEDING MAY DEVELOP.

Explanation Of Carcinogenicity: NONE LISTED.

Signs And Symptions Of Overexposure: IRRITATION, BURNS. CHRONIC OVER EXPOSURE MAY CAUSE FLUOROSIS.

Medical Cond Aggravated By Exposure: ANY SKIN, RESPIRATORY OR MUCOUS MEMBRANE CONDITIONS.

First Aid: INHALE: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP THIS PERSON WARM AND AT REST. GET MEDICAL ATTENTION. EYE: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING THE UPP ER AND LOWER LI

DS AT PERIODIC INTERVALSTO INSURE CONTACT OF WATER WITH ALL

ACCESSIBLE TISSUE OF THE EYES AND LIDS. IMMEDIATE MEDICAL ATTENTION. SKIN: USE SOAP AND MILD DETERGENT AND WATER TO WASH CONT AMINATED SKIN. REMOVE CONTAMINATED CLOTHING. INGEST: IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER IMMEDIATELY. DO NOT INDUCE VOMITING. SEVERAL GLASSES OF MILK MAY BE GIVEN FOR SOOTHING EFFECT. CALL A PHYSICIAN.

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Handling and Disposal

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Spill Release Procedures: ANY PERSONNEL IN AREA SHOULD WEAR A NIOSH APPROVED PROTECTIVE CLOTHING AND BREATHING APPARATUS. ISOLATE PRODUCT SPILL AREA. CAREFULLY SHOVEL MATERIAL AND PLACE IN CLEAN, DRY CONTAINER AND COVER. REMOV E CONTAINER FROM SPILL SITE AND DISPOSEOF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

Waste Disposal Methods: CONTACT CHEMTREC AT 1-800-424-9300 FOR 24-HOUR EMERGENCY ASSISTANCE. FOLLOW ALL FEDERAL, STATE, A

ND LOCAL REGULATIONS.

Handling And Storage Precautions: STORE IN A COOL, DRY PLACE AND AWAY FROM ACIDS. USE ONLY WITH ADEQUATE VENTILATION, DUST MASK OR SELF-CONTAINED BREATHING APPARATUS. PROTECTIVE CLOTHING SHOULD ALWAYS BE WORN. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. KEEP BAG OR CONTAINERS CLOSED WHEN NOT IN USE.

Other Precautions: AVOID BREATHING DUST OR MIST.

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Fire and Explosion Hazard Information

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\_\_\_\_\_\_ Flash Point Text: NON COMBUSTIBLE Extinguishing Media: THIS CHEMICAL IS NOT FLAMMABLE, BUT FOR FIRES WHERE THIS CHEMICAL IS STORED, USE FOAM, DRY CHEMICALS OR CARBON DIOXIDE. Fire Fighting Procedures: ALTHOUGH THIS CHEMICAL IS NOT FLAMMABLE, WHEN HEATED TO TEMPERATURES SUCH AS FIRE, IT WILL RELEASE HYDROGEN FLUORIDE GAS. Unusual Fire/Explosion Hazard: FIREFIGHTERS SHOULD AVOID ALL BODILY CONTACT, WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPAR ATUS. \_\_\_\_\_\_ **Control Measures** \_\_\_\_\_ Respiratory Protection: USE NIOSH-APPROVED SINGLE-USE DUST RESPIRATOR. SELF-CONTAINED BREATHING APPARATUS REQUIRED WHEN DEALING WITH SPILLS OR WHEN HEATED TO DECOMPOSITION. Ventilation: ADEQUATE VENTILATION TO MAINTAIN FLUORIDE CONCENTRATIONS BELOW APPLICABLE STANDARDS. Protective Gloves: IMPERVIOS GLOVES Eye Protection: SPLASH-PROOF GOGGLES Other Protecti ve Equipment: PROTECTIVE IMPERVOUS CLOTHING SHOULD BE WORN IN PRESENCE TO PREVENT CONTACT WITH SKIN(COVERALLS, BOOTS, ETC). Work Hygienic Practices: PROTECT OPEN WOUNDS.HEATING TO DECOMPOSITION REQUIRES FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. \_\_\_\_\_ **Physical/Chemical Properties** HCC: T4 Boiling Point: =1704.C, 3099.2F Melt/Freeze Pt: =992.C, ######F Spec Gravity: 2. 56 PH: ~7 Solubility in Water: 4G/100G OFH20 Appearance and Odor: WHITE, CRYSTALLINE POWDER; NO ODOR \_\_\_\_\_ **Reactivity Data** \_\_\_\_\_ Stability Indicator: YES Stability Condition To Avoid: EXTREME TEMPERATURES, SUCH AS FIRES, THEY WILL CAUSE DECOMPOSITION OF HYDROFLUORIC ACID AND FLUORINE Materials To Avoid: STRONG ACIDS WILL PRODUCE HYDROGEN FLUORIDE. Hazardous Decomposition Products: HYDROFLUORIC ACID

AND FLUORINE Hazardous Polymerization Indicator: NO
Toxicological Information
Ecological Information
MSDS Transport Information
Transport Information: DOT: SODI UM FLUORIDE, HAZARD CLASS 6.1, PACKAGING GROUP III. UN 1690
Regulatory Information
Transportation Information
Responsible Party Cage: TO289 T rans ID NO: 149265 Product ID: SODIUM FLUORIDE
MSDS Prepared Date: 03/01/1999 Review Date: 10/15/1999 MFN: 1 Net Unit Weight: 100 LB BAG Multiple KIT Number: 0 Unit Of Issue: BG Container QTY: 1 Type Of Container: BAG
Review Date: 10/15/1999 MFN: 1 Net Unit Weight: 100 LB BAG Multiple KIT Number: 0 Unit Of Issue: BG Container QTY: 1

D **Special Provision: T8** Packaging Exception: 153 Non Bulk Pack: 213 Bulk Pack: 240 Max Qty Pass: 100 KG Max Qty Cargo: 200 KG Vessel Stow Req: A Water/Ship/Other Reg: 26 \_\_\_\_\_ Detail IMO Information \_\_\_\_\_\_ IMO PSN Code: NRR IMO Proper Shipping Name: SODIUM FLUORIDE, SOLID IMDG Page Number: 6258 UN Number: 1690 UN Hazard Class: 6.1 IMO Packaging Group: III Subsidiary Risk Label: -EMS Number: 6.1-0 4 MED First Aid Guide NUM: 750 \_\_\_\_\_\_ Detail IATA Information \_\_\_\_\_ IATA PSN Code: WQB IATA UN ID Num: 1690 IATA Proper Shipping Name: SODIUM FLUORIDE IATA UN Class: 6.1 IATA Label: TOXIC UN Packing Group: III Packing Note Passenger: 619 Max Quant Pass: 100KG Max Quant Cargo: 200KG Packaging Note Cargo: 619 \_\_\_\_\_ Detail AFI Information \_\_\_\_\_ AFI PSN Code: WQB AFI Proper Shipping Name: SODIUM FLUORIDE AFI Hazard Class: 6.1 AFI UN ID NUM: UN1690 AFI Packing Group: III **Special Provisions: P5** Back Pack Reference: A10.6 HAZCOM Label \_\_\_\_\_ Product ID: SODIUM FLUORIDE Cage: TO289 Assigned IND: Y Company Name: LCI LTD. Street: UNK PO Box: 49000 City: JACKSONVILLE BEACH FL Zipcode: 32240-9000

Health Emergency Phone: 904-241-1200 Label Required IND: Y Date Of Label Review: 10/15/1999 Status Code: A Origination Code: F Eye Protection IND: YES Skin Protection IND: YES Signal Word: WARNING **Respiratory Protection IND: YES** Health Hazard: Moderate Contact Hazard: Slight Fire Hazard: None Reactivity Hazard: None Hazard And Precautions: ACUTE: INHALATION OF DUST OR MIST MAY CAUSE SEVERE MUCOUS MEMBRANE IRRITATION AND BURNS. EFFECTS MAY NOT BE IMMEDIATELY APPARENT, ESPECIALLY WITH DILUTE SOLUTIONS. CHRONIC: CAUSES SEVERE SKIN IRRITATI ON AND BURNS. INGESTION OR INHALATION MAY BE HARMFUL AND POSSIBLY FATAL DEPENDING ON SEVERITY AND LENGTH OF OVER EXPOSURE. CHRONIC OVER EXPOSURE MAY CAUSE FLUOROSIS. PRODUCT MAY BE ABSORBED THROUGH TH E SKIN AND PRODUCE SIGNS OF FLUOROSIS SUCH AS WEIGHT LOSS, BRITTLENESS OF BONES, ANEMIA, WEAKNESS AND STIFFNESS OF JOINTS. INTERNAL BLEEDING MAY DEVELOP. Product ID: SODIUM FLUORIDE Cage: 1LFJ4 Company Name: CHEMICAL MANAGEMENT SYSTEMS LLC DB A CHEMICAL MANAGEMENT SYST Street: 11029 NATURAL BRIDGE City: BRIDGETON MO Zipcode: 63044 Health Emergency Phone: 904-241-1200 Label Required IND: Y Date Of Label Review: 10/15/1999 Status Code: A Origination Eye Protection IND: YES Skin Protection IND: YES Signal Word: WARNING **Respiratory Protection IND: YES** Health Hazard: Moderate Contact Hazard: Slight Fire Hazard: None Reactivity Hazard: None Hazard And Precautions PRECAUTIONS: INHALATION: IF A PERSON BREATHES IN CHEMICAL DUST OR MIST, REMO

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EXPOSED PERSON TO FRESH AIR. EYE CONTACT: FLUSH WITH LARGE AMOUNSTS OF WATER, LIFTING EYELIDS AT PERIODIC INTERVALS TO IN SURE CONTACT OF WATER WITH ALL ACCESSIBLE TISSUE OF THE EYE AND EYELIDS. SKIN: WASH CONTAMINATED SKIN USING SOAP OR MILD DETERGENT AND WATER. INGEST: IF CONSCIOUS, GIVE THE EXPOSED PERSON LARGE QUANTI TIES OF WATER IMMEDIATELY. DO NOT INDUCE VOMITING. SEE MSDS FOR ADDITIONAL INFORMATION. STORE THE MATERIAL IN A COOL, DRY PLACE AND AWAY FROM ACIDS. USE ONLY WI

TH ADEQUATE VENTILATION.

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