

LCI LTD. -- SODIUM FLUORIDE

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MSDS Safety Information  
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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

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Item Description Information  
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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

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Ingredients  
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Cas: 7681-49-4  
RTECS #: WB0350000  
Name: SODIUM FLUORIDE  
Percent by Wt: 97.7  
EPA Rpt Qty: 1000 LBS  
DOT Rpt Qty: 1000 LBS

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Health Hazards Data  
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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 IRRITATION 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 THE SKIN AND PRODUCE SIGNS OF  
FLUOROSIS SUCH AS WEIGHT LOSS, BRITTLINESS OF BONES, ANEMIA, WEAKNESS AND  
STIFFNESS OF JOINTS. IN

TERNAL BLEEDING MAY DEVELOP.

Explanation Of Carcinogenicity: NONE LISTED.

Signs And Symptoms 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 UPPER AND  
LOWER LID

DS AT PERIODIC INTERVALS TO 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 CONTAMINATED 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. REMOVE  
CONTAINER FROM SPILL SITE AND DISPOSE OF 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, AND  
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 OFH2O

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

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Toxicological Information  
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Ecological Information  
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MSDS Transport Information  
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Transport Information: DOT: SODI  
UM FLUORIDE, HAZARD CLASS 6.1, PACKAGING GROUP  
III. UN 1690  
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Regulatory Information  
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Other Information  
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Transportation Information  
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Responsible Party Cage: TO289

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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  
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Detail DOT Information  
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DOT PSN Code: NFI

DOT Proper Shipping Name: SODIUM FLUORIDE

Hazard Class: 6.1

UN ID Num: UN1690

DOT Packaging Group: III

Label: KEEP AWAY FROM FOO

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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 Req: 26

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Detail IMO Information  
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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  
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MED First Aid Guide NUM: 750

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Detail IATA Information  
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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

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Detail AFI Information  
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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

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HAZCOM Label  
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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

IRRITATION 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 THE 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 BREATHE IN CHEMICAL DUST OR MIST, REMO

VE

EXPOSED PERSON TO FRESH AIR. EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING EYELIDS AT PERIODIC INTERVALS TO INSURE 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 QUANTITIES 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 WITH ADEQUATE VENTILATION.

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