

GENERAL CHEMICAL -- LEAD FLUOBORATE -- 6810-00-663-2569

===== Product Identification =====

Product ID:LEAD FLUOBORATE

MSDS Date:09/01/1989

FSC:6810

NIIN:00-663-2569

MSDS Number: BFKFQ

=== Responsible Party ===

Company Name:GENERAL CHEMICAL

Address:90 E HALSEY RD

Box:395

City:PARSIPPANY

State:NJ

ZIP:07054

Country:US

Info Phone Num:201-455-5630

Emergency Phone Num:(201)455-3700

Preparer's Name:DIREC

TOR ENVIRON.MATTERS

CAGE:0AU44

=== Contractor Identification ===

Company Name:GENERAL CHEMICAL CORPORATION

Address:90 EAST HALSEY ROAD

Box:City:PARSIPPANY

State:NJ

ZIP:07054

Country:US

Phone:973-515-1840

CAGE:0AU44

===== Composition/Information on Ingredients =====

Ingred Name:LEAD FLUOBORATE (SARA III)

CAS:13814-96-5

RTECS #:ED2700000

Fraction by Wt: 50-52%

OSHA PEL:SEE 1910.1025

ACGIH TLV:0.15 MG PB/M3; 9192

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:WATER

CAS:77

32-18-5
RTECS #:ZC0110000
Fraction by Wt: 48-50%

===== Hazards Identification =====

LD50 LC50 Mixture:LD50(ORAL RAT)=50MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:EXTENDED INH.OF MIST MAY CAUSE SOME OF THE CHRONC.SYMP.NOTED WITH PB FUMES&DUST:METALLIC TASTE,LOSS OF APETITE,INDIGESTION,NAUSEA,VOMIT,CONSTIPATN,ABD.CRAMPs,NERVOUS,INSON.MN.EXCESS LEAD ABS.MAY DAMAGE CNS,PNS & KIDNEY. CHRONIC EXPOSURE TO FLUORIDES MAY DAMAGE KIDNEY,CAUSE FLUOROSIS.-CONTINUES ON SUPPL SFTY & HEALTH DATA-
Explanation of Carcinogenicity:COULD NOT BE CLASSIFIED AS TO ITS CARCINOGENITY TO HUMANS.
Effects of Overexposure:EYES:LIQ.CONTACT CAUSES SEVERE IRRIT,BURNS.MISTS WILL ALSO IRRIT. SKIN:LIQ.CONTACT CAUSES IRRIT,BURNS;INH:MIST INH.CAUSES HEADACHE,CRAMPs,PAIN IN LEGS,COMA;ING:METALLIC TASTE,ABD.PAIN,VOMIT,DIARRH,CONVULSIONS,COMA.*FATAL DOSE(HUMAN) 0.5GM ABSORBED PB*HYPOCALCEMIA,POSSIBLE SEVERE/FATAL MAY OCCUR DUE TO FLUORIDE CONTENT
Medical Cond Aggravated by Exposure:FETUS OF PREGNANT WOMEN WORKERS MAY BE AT INCREASED RISK DUE TO EXCESS EXPOSURE TO LEAD.

===== First Aid Measures =====

First Aid:EYES:FLUS IMM.FOR 20MIN W.LG AMTS OF WTR.SEEK MED ATTN;SKIN:PROMPTLY WASH W.SOAP&WTR.TREAT AS ACID BURN.REMOVE CONTAM.CLOTH.SEEK MED.ATTN;INH:REMOVE TO FRESH AIR.IF BREATHING GIVE O*2,IF NOT BREATHING,GIVE CPR.SEEK MED.ATTN;ING:CALL DOCTOR AT ONCE.DO NOT INDUCE VOMIT.IF CONSCIOUS GIVE SEVERAL GLASSES MILK OR SEVERAL OUNCES MILK OF MAGNESIA,IF AVAIL;OTHERWISE GIVE LG QUANTITIES OF WTR&KEEP WARM&QUIET.

===== Fire Fighting Measures =====

Extinguishing Media:CO*2, FOAM, DRY CHEM.
Fire Fighting Procedures:WEAR CHEMICAL PROTECTIVE SUIT WITH SELF CONTD BRTHG APP.DO NOT USE WTR STRM DIRECTLY ON MTL ITSELF.USE WTR SPRAY TO ABSORB OR DISPERSE VAPORS.
Unusual Fire/Expl

osion Hazard:AVOID BREATHNG VAPS & FUMES FROM BURNING
MATERIAL.AVOID BODILY CONTACT WITH MATERIAL. *USE WATER SPRAY TO
KEEP FIRE-EXPOSED CONTAINERS COOL*

===== Accidental Release Measures =====

Spill Release Procedures:CONTAIN SPILL WITH INERT MATERIAL.USING
CAUTION,FLUSH W.WTR TO DILUTE SPILL OR NEUTRALIZE IT WITH ALKALI
SUCH AS SODIUM CARBONATE.KEEP OUT OF SEWER.MOP OR PUMP UP INTO
SUITABLE CONTAINER,COVER & LABEL FOR STORAGE AND LATER DISPOSAL.

Neutralizing Agent:CAO;CA(OH)*2;NAOH;NA*2CO*3

===== Handling and Storage =====

Handling and Storage Precautions:DO NOT GET IN EYES,SKIN OR CLOTH.AVOID
BREATHING MIST,IF FORMED USE W.ADEQUATE VENTILATION AND DO NOT
EAT,SMOKE WHILE HANDLING.

Other Precautions:STORE IN A DRY,WELL-VENTILATED AREA,OUT OF THE
SUN,AWAY FROM HEAT & FOOD PRODUCTS. KEEP CONTAINERS TIGHTLY CLOSED
AND PROTECT FROM PHYSICAL DAMAGE. PERIODICALLY INSPECT DRUM AND
STORAGE CONDITIONS.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF MISTY COND.PREVAIL&CONC.IS >TLV
BUT50MG(PB)/CUM U SE NIOSH APPVD SCBA W.FULL
FACEPIECE.

Ventilation:IF MISTY COND.PREVAIL,PROVIDE LOCAL EXHAUST VENTILATION.
NATURAL VENTILATION IS NORM.ADEQUATE IN ABSENCE OF MISTY COND.

Protective Gloves:RUBBER

Eye Protection:CHEM.SFTY GOGGLES W.FULL-FACE PLSTC SHLD

Other Protective Equipment:NEUTRALIZING SUPPLIES&EQUIPM,IF CALLED FOR
B

Y PRE-PLANNED SPILL OR LEAK PROCEDURES.PROVIDE EYEWASH,SHOWER
STATIONS.

Work Hygienic Practices:OBSERVE SCRUPULOUS PERS.HYGIENE&GOOD
HOUSEKEEPNG PRACT.WASH THOROUGHLY AFTER HANDLING.REMOVE PROMPTLY
ANY CONTAM.ITEMS.

Supplemental Safety and Health

CONT'D FROM HEALTH HAZARD:EXCESS EXPOSURE TO LEAD CAN IMPAIR THE
FORMATION OF BLOOD CELLS;IN ADDITION,THE FETUS OF PREGNANT WOMEN
WORKERS MAY BE AT INCREASED RISK,BECAUSE LEAD IS ABLE TO TRAVERSE
THE PLACENTA BARRIER AND ENTER T

HE BLOOD STREAM OF THE FETUS.

===== Physical/Chemical Properties =====

HCC:T4

Boiling Pt:B.P. Text:>212F,>100C

Spec Gravity:1.75

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQUID. RELATIVELY NO ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CYANIDES,CALCIUM CARBIDE,FLUORINE,WATER-REACTIVE MATERIALS.

ALUMINUM:THIS SOLUTION IS CORROSIVE TO AL

Stability Condition to Avoid:EVAP

ORATION TO DRYNESS WITH SUSTAINED

HEATING (AS IN AN ACCIDENTAL FIRE)

Hazardous Decomposition Products:HEATING SOLN TO OR ABOVE BOILING PT

GIVES OFF TOX MIST. HEATNG OF RESIDUE,IF EVAP.TO DRYNESS,MAY YIELD
TOXIC GASES.

===== Disposal Considerations =====

Waste Disposal Methods:NEUTRALIZE W.CAUTION.DO NOT SEWER.DISPOSAL OF
WASTE PB FLUOBORATE SOLN MAY BE SUBJECT TO FDL,STATE&LOCAL REGS.

USER SHOULD REVIEW OPNS IN TERMS OF APPLICABLE REGS,THEN C

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WITH APPROP.REGULATORY A GENCIES BEFORE DISCHARGING OR DISPOSINGOF
WASTE.

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