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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:DIRE CTOR 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

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:7 732-18-5 RTECS #:ZC0110000 Fraction by Wt: 48-50%

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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,INSO
MN.EXCESS LEAD ABS.MAY DAMAGE CNS, PNS & KIDNEY. CHRONIC EXPOSUR
ТО
FLUORIDES MAY DAMAGE KIDNEY,CAUSE FLUOROSISCONTINUES 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,CON
VULSIONS,COMA.*FATAL DOSE(HUMAN) 0.5GM ABSORBED
PB*HYPOCALCEMEIA,P
OSSIBLE 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.
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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 BREATHNG GIVE O*2,IF NOT BREATHNG,G IVE CPR.SEEK MED.A TTN;ING:CALL DOCTOR AT ONCE.DO NOT INDUCE VOMIT.IF CONCIOUS GIVE SEVERAL GLASSES MILK OR SEVERAL OUNCES MILK OF MAGNESIA,IF AVAIL;OTHERWISE GIVE LG QUANTITIES OF WTR&KEEP WARM&QUIET.

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

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 DISPOS AL.

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

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 STO

RAGE CONDITIONS.

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

BY 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

THE BLOOD STREAM OF THE FETUS.

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 Indicator/Materials to Avoid:YES CYANIDES,CALCIUM CARBIDE,FLUORINE,WATER-REACTIVE MATERIALS. *ALUMINUM:THIS SOLUTION IS CORROSIVE TO AL* Stability Condition to Avoid:EVA PORATION 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.

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 CONSULT

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

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