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VAN WATERS & ROGERS INC. -- LEAD FLUOBORATE SOLUTION -- 6810-00-663-2569

Product ID:LEAD FLUOBORATE SOLUTION MSDS Date:02/01/1986 FSC:6810 NIIN:00-663-2569 MSDS Number: BFKFV === Responsible Party === Company Name: VAN WATERS & ROGERS INC. Address:1600 NORTON BLDG City:SEATTLE State:WA ZIP:98104-1564 Info Phone Num:714-864-2310 Emergency Phone Num:206-447-5911 CAG E:DO735 === Contractor Identification === Company Name: CHEMICAL COMMODITIES AGENCY, INC. Address:27447 PACIFIC STREET Box:City:HIGHLAND State:CA ZIP:92346-2640 Country:US Phone:909-864-2310 CAGE:60777 Company Name: VAN WATERS & ROGERS SUBSIDIARY OF UNIVAR Address:6100 CARILLON POINT City:KIRKLAND State:WA ZIP:98033 Country:US Phone: 425-889-3400 CAGE:DO735 Company Name: VAN WATERS AND ROGERS Address:2256 JUNCTION AVE **City:SAN JOSE** State:CA ZIP:95131 Country:US Phone:408-435-8700/800-424-9300(CHEMTR

EC) CAGE:0AN91

Ingred Name:LEAD FLUOBORATE (SARA III) CAS:13814-96-5 RTECS #:ED2700000 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:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 50-53%

LD50 LC50 Mixture:RAT LDLO=50 MG/KG (ORAL) Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Repo rts of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: LEAD IS A CUMULATIVE POISON AND EXPOSURES TO EVEN SMALL AMOUNTS CAN RAISE THE BODY'S CONTENT TO TOXIC LEVELS. THE SYMPTOMS OF CHRONIC EXPOSURE ARE THOSE FOR LEAD POISONING (SEE SIGNS & SYMPTOMS). Explanation of Carcinogenicity:NOT LISTED. Effects of Overexposure: INHALATION: LOCAL IRRITATION OF RESPIRATORY TRACT. EYES: SEVERE IRRITATION & BURNS. SKIN: IRRITATION. SWALLOWED: FATIGUE, LOSS OF SLEEP , ABDOMINAL PAIN, NAUSEA, HEADACHE, LOSS OF APPETITE, METALLIC TA STE IN MOUTH, MUSCLE & JOINT PAIN, DIZZINESS & HYPERTENSION. Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING NERVE OR CIRCULATORY DISORDERS OR WITH SKIN OR EYE PROBLEMS MAY BE MORE SUSCEPTABLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid:INHALED: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET IMMEDIATE ME

DICAL ATTENTION. EYES: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDI CAL ATTENTION. SKIN: IMMEDIATELY FLUSH SKIN WITH LOTS OF RUNNING WATER. REMOVE CONTAMINATED CLOTHING. INGESTED: DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. NOTHING BY MOUTH IF UNCONSCIOUS

Flash Point:NONE Autoignition Temp:Autoignition Temp Text:NONE Lower Limits:NONE Upper Limits:NONE

Extinguishing Media:USE APPROPRIATE MEDIUM TO EXTINGUISH SURROUNDING FIRE.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS. USE WATER SPRAY TO COOL NEARBY CONTAINER & STRUCTURES EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:EXTINGUISH ALL NEARBY SOURCES OF IGNITION SINCE VAPORS DECOMPOSE TO TOXIC PRODUCTS AT HIGH TEMPERATURES.

Spill Release Procedures:WEAR ACID-RESISTANT S LICKER SUIT & COMPLETE PROTECTIVE INCLUDING RUBBER GLOVES & RUBBER BOOTS & FACESHIELD. WIPE UP SMALL SPILLS OR DRIPS. DIKE TO RETAIN LARGE SPILLS &

NEUTRALIZE WITH SODA ASH. VENTI LATE AREA. KEEP OUT OF SEWER. Neutralizing Agent:SODA ASH OR LIME.

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE. STORE AWAY FROM ALL OTHER CHEMICALS AND POTENTIAL SOURCES OF CONTAMINATION. KEEP CONTAINER TIGHTLY CLO
SED WHEN NOT IN USE.
Other Precautions:WASH THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

Respiratory Protection:NIOSH-APPROVED CANNISTER RESPIRATOR IN THE ABSENCE OF ADEQUATE ENVIRONMENTAL CONTROLS AT THE POINT OF USE. Ventilation:LOCAL MECHANICAL EXHAUST VENTILATION CAPABLE OF MAINTAING EMISSIONS AT THE POINT OF USE BELOW PEL. Protective Gloves:RUBBER. Eye Protection:CHEMICAL GOGGLES & FU LL FACE SHIELD.

Other Protective Equipment:LONG-SLEEVED SHIRT, TROUSERS, SAFETY SHOES AND RUBBER APRON.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.

Supplemental Safety and Health

CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, WILL RETAIN PRODUCT RESIDUE AND VAPORS. ALWAYS OBEY HAZARD WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL. DO NOT STORE NEAR FOODSTUFFS AND/OR CYANIDES.

========= Physical/Ch

emical Properties =================

HCC:T4 Boiling Pt:B.P. Text:>212F,100C Spec Gravity:1.75 Solubility in Water:COMPLETE Appearance and Odor:COLORLESS LIQUID. ODORLESS. Percent Volatiles by Volume:50

Stability Indicator/Materials to Avoid:YES CYANIDES, CALCIUM CARBIDE, FLUORINE, WATER-REACTIVE MATERIALS. Stability Condition to Avoid:EVAPORATION TO DRYNESS, SUSTAINED HEATING. Hazardous Decomposition Products:OXIDES OF BORON , HYDROGEN FLUORIDE GAS AND LEAD (TOXIC FUMES).

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS. NOTE: EMPTY CONTAINERS CAN HAVE RESIDUES,GASES & MISTS AND ARE SUBJECT TO PROPER WASTE DISPOSAL.

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