

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

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

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

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

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%

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

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 Measures =====

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 MEDICAL 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

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

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.

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

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 =====

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.

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

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 MAINTAINING  
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/Chemical 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 and Reactivity Data =====

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).

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

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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