

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

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Composition/Information on Ingredients
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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%

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Hazards Identification
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LD50 LC50 Mixture:RAT LDLO=50 MG/KG (ORAL)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reproductive Effects 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 TASTE IN MOUTH, MUSCLE & JOINT PAIN, DIZZINESS & HYPERTENSION.
Medical Conditions 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.

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

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 SLICKER SUIT & COMPLETE

PROTECTIVE INCLUDING RUBBER GLOVES & RUBBER BOOTS & FACESHIELD. WIPE UP SMALL SPILLS OR DRIPS. DIKE TO RETAIN LARGE SPILLS & NEUTRALIZE WITH SODA ASH. VENTILATE 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 CLOSED 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 & FACE SHIELD

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.

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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

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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).

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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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