

VAN WATERS & ROGERS -- FLUOBORIC ACID T1101 -- 6810-00-290-0034

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

Product ID:FLUOBORIC ACID T1101

MSDS Date:07/21/1987

FSC:6810

NIIN:00-290-0034

MSDS Number: BDVBJ

=== Responsible Party ===

Company Name:VAN WATERS & ROGERS

Address:1600 NORTON BLDG

City:SEATTLE

State:WA

ZIP:98104-1564

Info Phone Num:206-447-5911

Emergency Phone Num:206-447-5911

Preparer's Name:DOUG

LAS EISNER

CAGE: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:408-435-8700/800-4

24-9300(CHEMTREC)
CAGE:0AN91

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Composition/Information on Ingredients
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Ingred Name:FLUOBORIC ACID
CAS:16872-11-0
RTECS #:ED2685000
Fraction by Wt: 48-50%
OSHA PEL:2.5 MG F/M3
ACGIH TLV:2.5 MG F/M3

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: TO 100%

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Hazards Identification
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Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute

Chronic:PRODUCT IS EXTREMELY CORROSIVE TO ALL
BODY TISSUES. NO INFORMATION ON CHRONIC EXPOSURE REPORTED, HOWEVER
MFR DIRECTS READER TO FLUORIDE EFFECTS.

Effects of Overexposure:EYE:CORROSIVE,BURNING. SKIN:CORROSIVE,BURNING.
INHALED:SEVERELY IRRITATING,COUGHING,WHEEZING,PULMONARY EDEMA.
INGESTED:CORROSIVE,ABDOMINAL PAIN,NAUSEA,VOMITING. *HMIS:EXPECT
PRODUCT TO CAUSE FLUORIDE BURNS. THESE ARE VERY SEVERE BURNS WHERE
PAIN IS DELAYED,BUT SEVERE.*

Medical Condition Aggravated by Exposure:ASTHMA AND OTHER RESPIRATORY
AILMENTS.

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First Aid Measures
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First Aid:EYE:FLUSH WITH WATER 15 MIN;GET MEDICAL ATTENTION. SKIN:FLUSH
WITH WATER,WASH WITH SOAP & WATER. IF SYMPTOMS PERSIST,GET MEDICAL
ATTENTION. INHALED:REMOVE FROM EXPOSURE. GET MEDICAL ATTENTION.
INGESTED:DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF MILK OR
WATER.(NOTHING BY MOUTH IF UNCONSCIOUS) GET IMMEDIATE MEDICAL
ATTENTION.

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

Flash Point:NONE

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:PRODUCT AND ITS VAPORS ARE VERY CORROSIVE TO SKIN & OTHER BODY TISSUES.

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

Spill Release Procedures:WEAR APPROPRIATE PROTECTIVE EQUIPMENT. NEUTRALIZE. AB

SORB ON INERT MATERIAL.

Neutralizing Agent:SODA ASH OR LIME.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA, SEPARATED FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED.

Other Precautions:VERY CAREFULLY VENT CONTAINER TO RELIEVE PRESSURE WHEN OPENING. TREAT EMPTY CONTAINERS WITH RESPECT UNTIL CLEANED OUT. RINSE CONTAINERS 3 TIMES BEFORE DISPOSING.

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

Respiratory Protection:USE NIOSH RESPIRATOR FOR ACID MISTS IF EXPOSED ABOVE TLV.

Ventilation:USE HOOD OR OTHER LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV.

Protective Gloves:RUBBER WITH GAUNTLETS OR ELBOW LENGTH.

Eye Protection:SPLASH GOGGLES AND FULL FACE SHIELD.

Other Protective Equipment:EYE WASH & SAFETY SHOWER. ACID RESISTANT CLOTHING WHENEVER SPLASHES ARE POSSIBLE.

Work Hygienic Practices:USE VERY STRICT CHEMICAL HYGIENE PRACTICE. USE

EXTREME CAUTION TO AVOID CONTACT. DO NOT WEAR CONTACT LENSES.
Supplemental Safety and Health

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

HCC:C1

Boiling Pt:B.P. Text:230F/

Melt/Freeze Pt:M.P/F.P Text:-108

Vapor Pres:5-10

Vapor Density:3.0

Spec Gravity:1.38

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR COLORLESS LIQUID, ACID ODOR.

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

Stability Indicator/Materials to Avoid:YES
ALKALIS, OXIDIZERS

OR REDUCERS,CYANIDES,SULFIDES,METALS.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:TRIFLUORIDE OR HYDROGEN FLUORIDE.

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

Waste Disposal Methods:DISPOSE OF I/A/W FEDERAL,STATE,LOCAL REGULATIONS.

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