

ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP -- 23928-3 POTASSIUM HYDROGEN  
FLUORIDE, 99% -- 6810-01-446-5535

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

Product ID:23928-3 POTASSIUM HYDROGEN FLUORIDE, 99%

MSDS Date:02/01/1998

FSC:6810

NIIN:01-446-5535

MSDS Number: CFLJF

=== Responsible Party ===

Company Name:ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP

Address:1001 W. ST. PAUL AVE

Box:355

City:

MILWAUKEE

State:WI

ZIP:53201

Country:US

Info Phone Num:414-273-3850/FAX -4979

Emergency Phone Num:414-273-3850

CAGE:60928

=== Contractor Identification ===

Company Name:ALDRICH CHEMICAL CO INC

Address:1001 WEST ST PAUL AVE

Box:355

City:MILWAUKEE

State:WI

ZIP:53233

Country:US

Phone:414-273-3850

Contract Num:SP0450-99-M-NG62

CAGE:60928

Company Name:FLUKA CHEMICAL CORP.

Box:UNKNOW

CAGE:FLUCH

Company Name:SIGMA CHEMICAL COMPANY

Address:3050 SPRUCE ST

Box:14508

City:ST LOUIS

State:MO

ZIP:63178

Countr

y:US  
Phone:314-771-5765  
CAGE:21076

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Composition/Information on Ingredients  
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Ingred Name:POTASSIUM HYDROGEN FLUORIDE  
CAS:7789-29-9  
RTECS #:TS6650000  
= Wt:99.  
Other REC Limits:NONE RECOMMENDED

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Hazards Identification  
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:  
KIDNEYS. MAY BE FATAL  
IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. MATERIAL IS  
EXTREMELY DESTRUCTIVE TO MUCOUS MEMBRANES & UPPER RESPIRATORY  
TRACT, EYES & SKIN. INHALATION MAY RESULT IN EDEMA, INFLAMMATION,  
CHEMICAL PNEUMONITIS. INGESTION MAY CAUSE LOWERED BLOOD PRESSURE,  
COMA, DEATH. CHRONIC: ASTHMA.  
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%  
OR GREATER IS LISTED AS A CARCINOGEN.  
Effects of Overexposure:INHALED-BURNING SENSATION, COUGHING  
, WHEEZING,  
LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA, VOMITING.  
INGESTED-LOWERED BLOOD PRESSURE, SALIVATION, ABDOMINAL PAIN, FEVER,  
DEATH. SKIN-TISSUE DESTRUCTION. EYES-TISSUE DESTRUCTION.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures  
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First Aid:EYES-FLUSH WITH LOTS OF WATER FOR AT LEAST 15 MINUTES, LIFT  
LIDS. GET IMMEDIATE MEDICAL ATTENTION. SKIN-FLUSH LOTS OF WATER  
WHILE RE  
MOVING CLOTHES. GET IMMEDIATE MEDICAL ATTENTION.  
INHALED-REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING DIFFICULT.  
GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPPED. INGESTED-IF  
CONSCIOUS, RINSE MOUTH WITH WATER. CALL PHYSICIAN IMMEDIATELY.

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Fire Fighting Measures  
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Flash Point:NON-COMBUSTIBLE  
Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING  
FIRE CONDITIONS.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING AP

PARATUS &

PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND/OR EYES.

Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

Spill Release Procedures:EVACUATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS & HEAVY RUBBER GLOVES. SWEEP UP, PLACE IN BAG & HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST. VENTILATE AREA & WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

Neutralizing Agent:

None SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:AVOID CONTACT WITH EYES, SKIN OR CLOTHES. AVOID PROLONGED OR REPEATED EXPOSURE. KEEP TIGHTLY CLOSED. STORE IN A COOL, DRY PLACE.

Other Precautions:WASH THOROUGHLY AFTER HANDLING. DO NOT BREATHE DUST.

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

Respiratory Protection:WEAR APPROPRIATE NIOSH/MSHA APPROVED RESPIRATOR.

Ventilation:

USE ONLY IN CHEMICAL FUME HOOD.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:SAFETY GOGGLES W/FACESHIELD (8-INCH MIN)

Other Protective Equipment:WEAR OTHER PROTECTIVE CLOTHING. SAFETY SHOWER & EYE BATH.

Work Hygienic Practices:WASH HANDS BEFORE EATING, DRINKING, SMOKING. LAUNDRY CLOTHES BEFORE REUSE.

Supplemental Safety and Health

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

HCC:C1

Spec Gravity:2.370

Appearance and Odor:WHITE CRYSTALS.

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

Stability Indicator/Materials to Avoid: YES  
ACIDS, BASES, DO NOT STORE IN GLASS.  
Stability Condition to Avoid: HEAT  
Hazardous Decomposition Products: HYDROGEN FLUORIDE.

===== Toxicological Information =====

Toxicological Information: TOXIC IF SWALLOWED. CAUSES BURNS.

===== Ecological Information =====

Ecological: DATA NOT YET AVAILABLE.

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

Waste Disposal Methods: CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS.

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