

SPECTRUM CHEMICAL MFG CORP -- POTASSIUM FLUORIDE DIHYDRATE -- 6810-00-023-9682

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Product Identification  
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Product ID:POTASSIUM FLUORIDE DIHYDRATE

MSDS Date:07/18/1985

FSC:6810

NIIN:00-023-9682

MSDS Number: BCVNW

=== Responsible Party ===

Company Name:SPECTRUM CHEMICAL MFG CORP

Address:14422 S. SAN PEDRO STREET

City:GARDENA

State:CA

ZIP:90248-2027

Info Phone Num:714-864-2310 (CHEM COMMODIT  
IES)

Emergency Phone Num:213-516-8000

CAGE:63415

=== 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:SPECTRUM LABORATORY PRODUCTS INC

Address:14422 S SAN PEDRO ST

Box:City:GARDENA

State:CA

ZIP:90248-2027

Country:US

Phone:310-516-8000/FAX: 310-516-9843

CAGE:63415

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Composition/Information on Ingredients  
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Ingred Name:

POTASSIUM FLUORIDE

CAS:7789-23-3

RTECS #:TT0700000

Fraction by Wt: 100%

OSHA PEL:2.5 MG/M3 (F)

ACGIH TLV:2.5 MG/M3 (F); 8990

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

LD50 LC50 Mixture:LD50: 245 MG/KG (ORAL RAT)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: RESPIRATORY IRRITATION, SKIN & EYE IRRITATION OR BURNS. INGESTION MAY CAUSE SALIVATION, NAUSEA, ABDOM

INAL PAIN & BURNING, VOMITING, DIARRHEA, CONVULSIONS, GENERALIZED & MUSCULAR WEAKNESS, COLLA PSE, DYSPNEA, PARESIS, DIFFICULTY IN ARTICULATION, THIRST, WEAK PULSE, DISTURBED COLOR VISION & UNCONSCIOUSNESS, SEE SUP

Effects of Overexposure:IRRITATION TO EYES, NOSE & SKIN. INGESTION: INCREASED NERVOUS SYSTEM IRRITABILITY W/HYPERACTIVE REFLEXES, CONVULSIONS, HYPOCALCEMIA, HYPOGLYCEMIA, HYPOTENSION, MUSCULAR PAIN, ALBUMINURIA, ACUTE NEPHRI TIS, HEMORRHAGIC GASTROENTERITIS,

PATHOLOGICAL DAMAGE, AND DEATH FROM RESPIRATORY PARALYSIS OR CARDIAC FAILURE.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP & WATER. GET MEDICAL ATTENTION. EY E: WASH IMMEDIATELY WITH LARGE AMOUNTS OF WATER. GE

T MEDICAL ATTENTION IMMEDIATELY. INGESTION: DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. ANTIDOTE: CALCIUM GLUCONATE,10ML/10% SOL'N,I.V.

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

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:NONE

Lower Limits:NONE

Upper Limits:NONE

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR FOAM. FOR LARGE FIRES, USE WATER SPRAY, FOG OR ALCOHOL FOAM

Fire Fighting Procedures:MOVE CONTAINERS FRO

M FIRE AREA IF POSSIBLE.

USE WATER IN FOODING QUANTITIES AS FOG. COOL CONTAINERS W/ FLOODING AMTS OF WATER. AVOID BREATHING CORROSIVE VAPORS

Unusual Fire/Explosion Hazard:NEGLIGIBLE FIRE AND NEGLIGIBLE EXPLOSION HAZARD IN DUST FORM WHEN EXPOSED TO HEAT OR FLAME.

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

Spill Release Procedures:DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF NO RISK. SMALL SPILL: TAKE UP W/SAND OR OTHER ABSORBENT MATERIAL & PLACE INTO

CONTAINERS FOR LATER DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:AVOID HEATING TO DECOMPOSITION AND CONTACT WITH OR STORAGE WITH INCOMPATIBLE SUBSTANCES.

Other Precautions:POTASSIUM FLUORIDE DIHYDRATE IS A SKIN, EYE AND MUCOUS MEMBRANE IRRITANT AND MAY BE TOXIC BY INGESTION.

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

Respiratory Protection:USE

NIOSH/MSHA APPROVED FULL FACEPIECE

RESPIRATOR WITH ACID GAS CANISTER HAVING A HIGH-EFFICIENCY PARTICULATE FILTER OR NIOSH/MSHA APPROVED SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE.

Ventilation:LOCAL EXHAUST OR PROCESS ENCLOSURE TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves:IMPERVIOUS

Eye Protection:SPLASH-PROOF OR DUST-RESISTANT GOGGLES

Other Protective Equipment:FULL PROTECTIVE CLOTHING,SAFETY SHOWER,EYE WASH STATION

Work Hygienic Practices:EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE

GLOVES TO PREVENT CONTACT WITH THIS SUBSTANCE.

Supplemental Safety and Health

CHRONIC EXPOSURE: PROLONGED OR REPEATED EXPOSURE MAY INCREASE OSTEOBLASTIC ACTIVITY, CAUSE DERMATITIS, CONJUNCTIVITIS, NAUSEA, VOMITING, ANOREXIA, DIARRHEA OR CONSTIPATION, WEIGHT LOSS AND "FLUOROSIS" (OSTEOSCLEROSIS, OSTEOMALACIA, CALCIFICATION OF LIGAMENTS & MOTTLING OF TEETH).

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

HCC:T4

Boiling Pt:B.P. Text:313

F, 156C

Melt/Freeze Pt:M.P/F.P Text:106F, 41C

Spec Gravity:2.5

Solubility in Water:COMPLETE

Appearance and Odor:MONOCLINIC,DELIQUESCENT CRYSTALS

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

REACTS WITH ACIDS TO FORM CORROSIVE AND TOXIC HYDROGEN FLUORIDE.

Stability Condition to Avoid:CRYSTALS ARE HYDROSCOPIC. WHEN DISSOLVED  
IN WATER, TOXIC AND CORROSIVE HYDROFLUORIC ACID IS FORMED.

Hazardous Deco

mposition Products:THERMAL DECOMPOSITION PRODUCTS MAY  
INCLUDE TOXIC AND HAZARDOUS OXIDES OF FLUORIDE AND POTASSIUM AND  
CORROSIVE HF.

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

Waste Disposal Methods:DISPOSE OF COLLECTED MATERIAL IN ACCORDANCE WITH  
LOCAL,STATE AND FEDERAL REGULATIONS.

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