

FISHER SCIENTIFIC, CHEMICAL DIV. -- CALCIUM CHLORIDE,C 77 -- 6810-00-237-2934

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

Product ID:CALCIUM CHLORIDE,C 77

MSDS Date:06/30/1994

FSC:6810

NIIN:00-237-2934

MSDS Number: BXCDF

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC, CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100/800-424-9300(CHEMTREC)

CAGE:1B464

=== Contractor Id

entification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name:CALCIUM CHLORIDE

CAS:10043-52-4

RTECS #:EV9800000

Fraction by Wt: >96%

Other REC Limits:TWA 5 MG/M3 MALLINCK

Ingred Name:CALCIUM HYDROXIDE

CAS:1305-62-0

RTECS #:EW2800000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:5

Ingred Name:MAGNESIUM SALT  
Other REC Limits:NONE RECOMMENDED

Ingred Name:ALKALI SALTS  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 1000 MG/KG.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY  
& GI TRACTS. ACUTE- INHALE:DUST MAY CAUSE IRRITATION.  
SKI  
N:CORROSIVE. MAY CAUSE SEVERE IRRITATION, BLISTERING. EYE:MAY  
CAUSE PAIN & INJURY. ORAL:MAY CAUSE ABDOMIN AL SPASMS & NAUSEA.  
FATAL DOSE IS ESTIMATED TO BE 30 GRAMS. CHRONIC- MAY CAUSE  
DERMATITIS, PERFORATION OF NASAL SEPTUM.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:IRRITATION, PAIN, DERMATITIS, COUGHING, NOSE  
BLEED, ULCERATION, REDNESS, CARDIOVASCULAR IRREGULARITIES  
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING  
DISEASES OF THE EYE, SKIN  
, RESPIRATORY TRACT MAY HAVE INCREASED  
SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYE:FLUSH WITH  
WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. GET PROMPT MEDICAL  
ATTENTION. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF  
NEEDED. ORAL:DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD  
LOWER THAN HIPS TO HELP PREVENT ASPIRATION. GET MEDICAL A  
TTENTION  
IMMEDIATELY. SKIN:WASH WITH SOAP & WATER.

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

Flash Point:NONE  
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL.  
USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.  
Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED  
SELF-CONTAINED BREATHING APPARATUS. MOVE CONTAINER FROM FIRE AREA  
IF YOU CAN DO IT WITHOUT RISK.  
Unusual Fire/Explosion Hazard:CORROSIVE VAPORS MAY FORM.

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

Spill Release Procedures:DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. TAKE UP SPILL WITH SAND. PICK UP SMALL DRY SPILL WITH DRY SHOVEL. TRANSFER TO A CONTAINER AND COVER FOR LATER DISPOSAL. AVOID CR EATING DUST. WASH SPILL AREA.

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

Handling and Storage Precautions:STORE IN DRY PLACE AWAY FROM MOISTURE & INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED. DO NOT CONSUME FOOD, DRINK WHILE WORKING WITH THIS MATERIAL.  
Other Precautions:DO NOT RAISE DUST. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID INHALATION OF DUST. WASH THOROUGHLY AFTER HANDLING MATERIAL. KEEP OUT OF REACH OF CHILDREN. OBEY HAZARD WARNING OF LABEL.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF AIRBORNE CONCENTRATION IS HIGH, WEAR A NIOSH-APPROVED DUST RESPIRATOR OR DUST MASK.  
Ventilation:ADEQUATE  
Protective Gloves:RUBBER  
Eye Protection:TIGHT-FITTING SAFETY GOGGLES  
Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, PROTECTIVE CLOTHING  
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.  
Supplemental Safety and Health  
FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE PNI A, SAME NSN. PH RANGE OF A 5% SOLUTION: 4.5 - 8.5.

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

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HCC:B3  
NRC/State Lic Num:NOT RELEVANT  
Boiling Pt:=1600.C, 2912.F  
Melt/Freeze Pt:=777.2C, #####F  
Spec Gravity:2.15  
pH:8.5 5%  
Evaporation Rate & Reference:NOT RELEVANT  
Solubility in Water:74.5% @ 68F  
Appearance and Odor:CUBIC CRYSTALS, GRANULES OR FUSED MASSES, VERY HYGROSCOPIC

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

Stability Indicator/Materials to Avoid:YES  
BORIC OXIDE, BROMINE TRIFLORIDE, FURAN-2-PEROXYCARBOXYLIC ACID, METALS+MOISTURE, WATER, METHY

L VINYL ETHER, ZINC (->H<sub>2</sub>)

Stability Condition to Avoid:MOISTURE

Hazardous Decomposition Products:MAY FORM TOXIC AND CORROSIVE CHLORINE GAS.

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

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

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