

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: BXCFD

=== 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 Identification ===

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 MG/M3; 9495

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.

SKIN: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 Expo

sure: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 HE AD

LOWER THAN HIPS TO HELP PREVENT ASPIRATION. GET MEDICAL ATTENTION 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 R

ISK.
Unusual Fire/Explosion Hazard:CORROSIVE VAPORS MAY FORM.

===== 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 =====

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, METHYL VINYL ETHER, ZINC (->H2)
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.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elemen

ts of the Department

of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.