

FISHER SCIENTIFIC, CHEMICAL DIV. -- BARIUM CHLORIDE DIHYDRATE -- 6810-00-237-2922

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Product Identification  
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Product ID: BARIUM CHLORIDE DIHYDRATE

MSDS Date: 09/22/1992

FSC: 6810

NIIN: 00-237-2922

MSDS Number: BDLYB

=== Responsible Party ===

Company Name: FISHER SCIENTIFIC, CHEMICAL DIV.

Address: 1 REAGENT LANE

City: FAIR LAWN

State: NJ

ZIP: 07410-2803

Country: US

Info Phone Num: 201-796-7100 OR 201-

796-7523

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

CAGE: 1B464

=== Contractor Identification ===

Company Name: FISHER SCIENTIFIC CO

Address: 2000 PARK LN

Box: City: PITTSBURGH

State: PA

ZIP: 15275

Country: US

Phone: 412-490-8586

CAGE: 22527

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

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Composition/Information on Ingredients  
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Ingred Name: BARIUM CHLORI

DE  
CAS:10361-37-2  
RTECS #:CQ8750000  
Fraction by Wt: 100%  
Other REC Limits:NONE SPECIFIED BY M.  
OSHA PEL:0.5 MG/M3 (BA)  
ACGIH TLV:0.5 MG/M3 (BA); 8990

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

LD50 LC50 Mixture:ORAL RAT LD50 = 118 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE:IRRITATION OF EYES & SKIN AND  
RESPIRATORY TRACT. TOXIC BY INGESTION, 0.8 GRAM MAY  
BE FATAL.  
CHRONIC:DERMATITIS, CONJUNCTIVITIS, MAY EFFECT KIDNEYS,  
CARDIOVASCULAR AND CNS SYSTEM .  
Effects of Overexposure:INHALATION:SOAR THROAT, COUGHING AND LABORED  
BREATHONG. SKIN:IRRITATION. EYE:IRITIS. INGESTION:NAUSEA, VOMITING  
AND DIARRHEA, EXCESSIVE SALIVATION, BLURRED VISION AND HYPOKALEMIA  
Medical Cond Aggravated by Exposure:SKIN, CARDIOVASCULAR AND  
RESPIRATORY DISEASES.

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

First Aid:EYES:FLUSH THORO  
UGHLY WITH WATER;GET MEDICAL ATTENTION.  
SKIN:WASH WITH SOAP & WATER;GET MEDICAL HELP. INHALATION:REMOVE TO  
FRESH AIR;SEEK MEDICAL ATTENTION. INGESTION:DRINK 1 OR 2 GLASSES OF  
WATER & I NDUCE VOMITING IF CONSCIOUS;SEEK MEDICAL ATTENTION AT  
ONCE.

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

Flash Point:NONE  
Extinguishing Media:USE SUITABLE MEDIA FOR SURROUNDING FIRES.  
Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING  
AND SELF-CONTA  
INED BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:MAY BURN BUT DOES IGNITE READILY.  
CONTAINER MAY EXPLODE IN HEAT OF FIRE. DIKE FIRE-CONTROL WATER FOR  
LATER DISPOSAL.

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

Spill Release Procedures:ISOLATE ARES. USE PROPER PERSONAL PROTECTION;  
VACUUM UP DRY POWDER & CONTAINERIZE FOR PROPER DISPOSAL. FOR  
SOLUTIONS OF BARIUM CHLORIDE, ABSORB IN INERT MATERIAL AND PLACE IN  
CONTAINERS FOR LATER DISP OSAL.

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

Handling and Storage Precautions:STORE AT ROOM TEMPERATURE.KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

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

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR FOR DUST IF ABOVE TLV/PEL.USE ONLY WITH AN ADEQUATE VENTILATION.

Ventilation:LOCAL/GENERAL TO MAINTAIN TLV/PEL

Protective Gloves:PVC

Eye Protection:SAFETY GOGGLES

Other Protective Equipment:FULL SKI

N & EYE PROTECTION;EYE-WASH,APRON

Work Hygienic Practices:AVOID CONTACT WITH EYES AND SKIN;DO NOT BREATHE DUST.WASH THOROUGHLY AFTER EACH USE.

Supplemental Safety and Health

THE ATTENDING PHYSICIAN SHOULD BE ALERTED TO THE FACT THAT IN ACUTE BARIUM POISONING,A CONSTANT FINDING IS A RAPID DECREASE IN SERUM-POTASSIUM LEVEL.REFERENCES INDICATE THE IMPORTANCE OF INFUSION OF P OTASSIUM IN ORDER TO BALANCE THIS DECREASE.

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

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HCC:T4

Boiling Pt:=1560.C, 2840.F

Melt/Freeze Pt:=962.8C, #####F

Spec Gravity:3.097

Solubility in Water:SOLUBLE (58.7%)

Appearance and Odor:WHITE CRYSTALS,GRANULES,OR POWDER,ODORLESS

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

BROMINE TRIFLUORIDE(REACTS VIOLENTLY),2-FURAN PERCARBOXYLIC ACID(EXPLOSIVE REACTION), ORGANIC MATTER.

Stability Condition to Avoid:HIGH TEMPERATURES.

Hazardous De

composition Products:TOXIC AND HAZARDOUS BARIUM OXIDE, AND  
CORROSIVE HYDROCHLORIC ACID.

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

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

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