

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

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

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

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

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

===== 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.

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

First Aid:EYES:FLUSH THOROUGHLY 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 & INDUCE VOMITING IF CONSCIOUS;SEEK MEDICAL ATTENTION AT  
ONCE.

===== 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-CONTAINED 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.

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

Spill Release Procedures:ISOLATE AREA. 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 DISPOSAL.

====

===== 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 POTASSIUM IN ORDER TO BALANCE THIS DECREASE.

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

====

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.

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

This information is formulated for use by elements 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.