

FISHER SCIENTIFIC CHEMICAL -- BARIUM CHLORIDE DIHYDRATE, ACC02371 -- 6810-00-236-5336

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Product Identification  
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Product ID: BARIUM CHLORIDE DIHYDRATE, ACC02371

MSDS Date: 07/31/1991

FSC: 6810

NIIN: 00-236-5336

MSDS Number: CDWZT

=== Responsible Party ===

Company Name: FISHER SCIENTIFIC CHEMICAL

Address: 1 REAGENT LANE

City: FAIR LAWN

State: NJ

ZIP: 07410

Country: US

Info Phone Num: 201-796-7100

Emer

gency Phone Num: 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

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Composition/Information on Ingredients  
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Ingred Name: BARIUM CHLORIDE DIHYDRATE LD50 (ORAL RAT): 118 MG/KG

CAS: 10326-27-9

RTECS #: CQ8751000

OSHA PEL: 0.5 MG BA/M3

ACGIH TLV: 0.5 MG BA/M3

Ingred Name: SUP DAT: DEPRESSED. HEMORRS M

AY OCCUR IN STOM, INTESTINES &  
KIDNEYS. KIDNEY DMG & KIDNEY FAILURE HAVE BEEN (ING 3)  
RTECS #:9999999ZZ

Ingr Name:ING 2: DESCRIBED. COLLAPSE & DEATH FROM RESP FAILURE, SEV  
HYPOKALEMIA & CARD ARREST MAY OCCUR. CHRONIC: INHAL: (ING 4)  
RTECS #:9999999ZZ

Ingr Name:ING 3: NO DATA AVAIL. SKIN: RPTD & PRLNG CONT W/IRRITANTS  
MAY CAUSE DERM. EYE: RPTD & PRLNG CONT W/IRRITANTS MAY (ING 5)  
RTECS #:9999999ZZ

Ingr Name:ING 4: CAUSE CONJ. INGEST: NO DATA AVAILABLE.  
RTECS #:9999999ZZ

Ingr  
ed Name:FIRST AID PROC: (APPROX 15-20 MIN). GET MED ATTN IMMED.  
INGEST:INDUCE VOMIT IMMED WHEN SOL BARIUM CMPDS INGESTED.(ING 7)  
RTECS #:9999999ZZ

Ingr Name:ING 6: TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MED ATTN  
IMMED. ANTIDOTE:POIS FROM BARIUM CMPDS:GIVE 30 G OF (ING 8)  
RTECS #:9999999ZZ

Ingr Name:ING 7: SODIUM SULFATE IN 250 ML OF WATER ORALLY & REPEAT IN  
1 HR. GIVE BY GASTRIC TUBE IF SYMPS HAVE APPEARED. (ING 9)  
RTECS #:9999999ZZ

Ingr Name:ING 8: ADMIN OF SULFATE SALTS  
INTRAVENOUSLY IS HAZ, SINCE  
THEY INDUCE PRECIPITATION OF BARIUM SULFATE IN KIDNEY,(ING 10)  
RTECS #:9999999ZZ

Ingr Name:ING 9: W/SUBSEQUENT RENAL FAILURE. ADMIN OF POTASSIUM IS  
CRITICAL. ANTIDOTE SHOULD BE ADMIN BY QUALIFIED MED PERS.  
RTECS #:9999999ZZ

Ingr Name:SPILL PROC: AHEAD OF SPILL FOR LATER DISP. ISOLATE HAZ AREA  
& DENY ENTRY. VENT CLSD SPACES BEFORE ENTERING.  
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:SEE

INGREDIENT 1.

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

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

Health Hazards Acute and Chronic:ACUTE: INHAL: 250 MG(BA)/M3 IMMED

DANGEROUS TO LIFE/HLTH. MAY CAUSE IRRIT OF RESP TRACT, SORE THROAT, COUGHING & LABORED BRTHG. SKIN: MAY CAUSE IRRIT & DERM. IF SUFFICIENT AMTS ARE ABSORBED, EFTS MAY OCCUR AS IN ACUTE INGEST. EYE: APPLICATION OF 0.08-0.01 M SOLN, FOR 10 MIN, ON RABBIT EYES, CAUSED (EFTS OF OVEREXP)

Expla

nation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ: CONSIDERABLE IRITIS, WHICH SUBSIDES

IN FEW DAYS. INGEST: SEV GI IRRIT INCL NAUS, VOMIT & DIARR W/OR W/OUT ABDOM COLIC, & EXCESS SALIVATION. THERE MAY ALSO BE DRYNESS & SENSE OF CONSTRICTION OF MOUTH & THROAT & METALLIC TASTE. SYSTEMIC EFTS FOLLOW & MAY INCL OCULAR CHANGES, CAUSING BLURRED VISION. (SUP DAT)

Medical Cond Aggravated by Exposure:PERSONS WITH CHRONIC RESPIRATORY CARDIOVASCULAR OR SKIN DISEASES.

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

First Aid:INHAL:REMOVE TO FRESH AIR IMMED. IF BRTHG STOPPED, GIVE ARTF RESP. KEEP WARM & AT REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MED ATTN. SKIN:REMOVE CONTAM CLTHG & SHOES IMMED. WASH AFFECTED AREA W /SOAP & WATER UNTIL NO EVIDENCE OF CHEMREMAINS (APPROX 15-20 MIN). GET MED. EYE:WASH IMMED W/LGE AMTS OF WATER/NORM SALINE, OCCAS LIFTING UPPER & LOWER LIDS, UNTIL NO EVIDENCE OF CHEM REMAINS (ING 6)

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

Extinguishing Media:DRY CHEMICAL, WATER SPRAY OR REGULAR FOAM. FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM.

Fire Fighting Procedures:WEAR NIOSH APPRVD SCBA & FULL PROT EQUIP . MOVE CONTR FROM FIRE AREA IF W/OUT RISK. FIGHT FIRE FROM MAX DIST. STAY AWAY FROM ENDS OF TANKS. (SUP DAT)

Unusual Fire/Explosion Hazard:NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

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Accidental Release Measures =====

Spill Release Procedures:DO NOT TOUCH MATL. STOP LEAK IF W/OUT RISK.  
USE WATER SPRAY TO REDUCE VAPS. SML SPILLS: TAKE UP W/ABSORB MATL &  
PLACE INTO CONTRS FOR LATER DISP. SML DRY SPILLS: W/CLEAN SHOVEL  
PLACE MATL INTO CLEAN, DRY CONTRS & COVER. LGE SPILLS: DIKE FAR  
(ING 11)  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:MAY  
BURN BUT DOES NOT IGNITE READILY.  
CONTAINERS MAY EXPLODE IN HEAT OF FIRE. STORE AWAY FROM  
INCOMPATIBLE SUBSTANCES.  
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON  
CONTAMINATION LEVELS FOUND IN THE WORK PLACE, MUST NOT EXCEED THE  
WORKING LIMITS OF THE RESPIRATOR AND BE NIOSH APPROVED. FOR A LIST  
OF SPECIFIC RESPIRATORS, CONTACT NEHC .

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

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment:ANSI APPRVD EMER EYEWASH & DELUGE SHOWER .  
APPROP PROT CLTHG & EQUIP TO PVNT CONT W/SUBSTANCE.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

FIRE FIGHT PROC: DIKE FIRE-CTL WATER FOR LATER DISP; DO NOT SCATTER  
MATL. EFTS OF OVEREXP:

HYPOKALEMIA MAY OCCUR & RSLT IN ABNORM OF  
MYOCARDIAL FUNC & IMPAIRED NEUROMUSCULAR FUNC. OTHER EFTS MAY INCL  
ANXIETY, WEAK, & GRADUALLY INCREASING SLEEPINESS W/MENTAL  
CONFUSION. CNS MAY BE FIRST STIMULATED & THEN (ING 2)

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

Boiling Pt:B.P. Text:96.0F,35.6C

Melt/Freeze Pt:M.P/F.P Text:235F,113C

Spec Gravity:3.097

Solubility in Water:58.7% @ 100C

Appearance and Odor:COLORLESS FLAT CRYSTALS WITH A BITTER, SALTY TASTE

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

Stability Indicator/Materials to Avoid: YES

BROMINE TRIFLUORIDE, COMBUSTIBLE MATERIALS, 2-FURAN PERCARBOXYLIC ACID, ORGANIC MATTER.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: MAY INCLUDE TOXIC AND HAZARDOUS OXIDES OF BARIUM, AND CORROSIVE HYDROCHLORIC ACID.

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

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

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