

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

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

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

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

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 IMMEDIATE

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)

Explanation

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 IMMEDIATE. IF BRTHG STOPPED, GIVE ARTF RESP. KEEP WARM & AT REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MED ATTN. SKIN:REMOVE CONTAM CLTHG & SHOES IMMEDIATE. WASH AFFECTED AREA W /SOAP & WATER UNTIL NO EVIDENCE OF CHEMREMAINS (APPROX 15-20 MIN). GET MED. EYE:WASH IMMEDIATE 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:NEGLEGIBLE 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 RESPIRATO RS, CONTACT NEHC .
Ve
ntilation: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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