View NSN Online: https://aerobasegroup.gr/nsn/6810-00-973-8893

Product ID:BISMUTH, B-319 MSDS Date:06/04/1992 FSC:6810 NIIN:00-973-8893 MSDS Number: CDVNM === Responsible Party === **Company Name: FISHER SCIENTIFIC** 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:1B4 64 === 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 Ingred Name:BISMUTH CAS:7440-69-9 RTECS #:EB2600000

RTECS #:EB2600000 Fraction by Wt: 100% OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name:SUPDAT:HOLDER/MONITOR NOZZ; IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA & LET FIRE BURN (1990 EMER REPONSE (ING 3) R

## TECS #:9999999ZZ

Ingred Name:ING 2:GUIDEBOOK, DOT P 5800.5, GUIDE PAGE 32). RTECS #:99999992Z

Ingred Name:CNDTNS TO AVOID:IGNITE IN PRESENCE OF MOISTURE. RTECS #:99999992Z

Ingred Name:MATLS TO AVOID:NITRIC ACID, NITROSYLFLUORIDE, OXIDIZERS, PERCHLORIC ACID. RTECS #:99999992Z

Ingred Name:EFTS OF OVEREXP:MANIFESTATIONS OF KIDNEY DMG. LIVER DMG W/MILD JAUNDICE & CONJUNCTIVAL HEMORRHAGE ARE RARE. (ING 7) RTECS #:9999999ZZ

Ingred Name: ING 6: REVERSIBLE ENCEPHALOPATHY & OSTEODYSTROPHY HAVE BEEN

RPTD FROM BISMUTH SALTS. RTECS #:99999992Z

Ingred Name:FIRST AID PROC:SALINE, OCCASNLY LIFTING UPPER & LOWER LIDS, UNTIL NO EVID OF CHEM REMAIN (FOR @ LST 15 MIN). (ING 9) RTECS #:99999992Z

Ingred Name:ING 8:GET MED ATTN IMMED. INGEST:TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MED ATTN IMMED. IF VOMIT OCCURS, (ING 10) RTECS #:9999999ZZ

Ingred Name:ING 9:KEEP HEAD LOWER THAN HIPS TO PREVENT ASPIRATION. RTECS #:9999999ZZ

Ingred Name:RESP PROT:ON SPECIFIC OPERATION, MUST NOT EX CEED WORKING

LIMITS OF RESP & MUST BE APPRVD BY NATL INSTITUTE (ING 12) RTECS #:9999999ZZ

Ingred Name:ING 11:FOR OCCUPATIONAL SAFETY & HEALTH (NIOSH APPRVD). ANY DUST, MIST, & FUME RESPIRATOR. ANY CHEMICAL (ING 13) RTECS #:9999999ZZ

Ingred Name:ING 12:CARTRIDGE RESP W/DUST, MIST, & FUME FILTER. ANY POWERED AIR-PURIFYING RESP W/DUST, MIST & FUME FILTER. (ING 14) RTECS #:9999999ZZ

Ingred Name: ING 13: ANY TYPE "C" SUPPLIED-AIR RESP W/FULL FACEPIECE OPERATED IN PRESS-DEMAND/OTHER P OS PRESS MODE OR W/FULL (ING 15) RTECS #:99999992Z

Ingred Name:ING 14:FACEPIECE, HELMET/HOOD OPERATED IN CONTINUOUS-FLOW MODE. ANY SCBA W/FULL FACE PIECE OPERATED IN PRESS- (ING 16) RTECS #:9999999ZZ

Ingred Name:ING 15:DEMAND/OTHER POS PRESS MODE. FOR FIREFIGHTING & OTHER IMMED DANGEROUS TO LIFE/HLTH CNDTNS:ANY SCBA THAT (ING 17) RTECS #:9999992Z

Ingred Name:ING 16:HAS FULL FACEPIECE & IS OPERATED IN PRESS-DEMAND/OTHER POS-PRESS MODE. ANY SUPPLIED-AIR RESP THAT HAS (ING 18)

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TECS #:99999992Z

Ingred Name:ING 17:FULL FACEPIECE & IS OPERATED IN PRESS-DEMAND/OTHER POS-PRESS MODE IN COMBINATION W/AUXILIARY SCBA (ING 19) RTECS #:9999999ZZ

Ingred Name:ING 18:OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE. RTECS #:99999992Z

LD50 LC50 Mixture:LD50:(ORAL,RAT) 5 GM/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health H azards Acute and Chronic:ACUTE:INHAL:BISMUTH CMPDS HAVE LITTLE/NO EFT ON INTACT MUC MEMB. SKIN:BISMUTH CMPDS HAVE LITTLE/NO EFT ON INTACT SKIN. EYE:DIRECT CONT W/BISMUTH CMPDS IS NOT EXPECTED TO CAUSE INJURY EXCEPT IN CASE OF STRONGLY ACIDIC SALTS. CHRONIC:INGEST:RPTD/PRLNGD INGEST OF SOLUBLE BISMUTH COMPOUNDS MAY CAUSE DECR (EFTS OF OVEREXP) Explanation of Carcinogenicity:NOT RELEVANT. Effects of Overexposure:HLTH HAZ:APPETITE, COLIC, NAUS, VOMIT, DIARR,

ULCERATIVE STOM

ATITIS, FOUL BREATH, SALIVATION, GINGIVITIS, A BLUE-GRAY BISMUTH LINE ON THE GUMS OR DIFFUSE/PATCHING BLUISH COLOR OF MUCOSA, WEAK, RHEUMAT IC PAIN, FEVER, HDCH, & SKIN RASHES/LESIONS FOLLOWED BY EXFOLIATIVE DERM. NEPHRITIS & DIURESIS MAY BE (ING 6) Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.
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First Aid:INHAL:REMOVE FROM EXPOS AREA TO FRESH AIR IMMED. IF BRTHG HAS STOPPED, PERFORM AR TF RESP. KEEP PERSON WARM & @ REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MED ATTN IMMED. SKIN:REMOVE CONTAMD CLTHG & SHOES IMMED. WASH AFFECTED AREA W/SOAP OR MILD DETERGENT & LG AMTS OF WATER UNTIL NO EVID OF CHEM REMAINS (APPROX 15-20 MINS). GET MED ATTN IMMED. EYE:WASH IMMED W/LG AMTS OF WATER/NORM (ING 8)
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<ul> <li>Extinguishing Media:EXTING USING AGENT FOR TYPE OF FIRE. AVOID BRTHG FUMES FROM BURNING</li> <li>MATL. DRY CHEM, CO*2, WATER SPRAY/ALCOHOL-(SUPDAT)</li> <li>Fire Fighting Procedures:NIOSH APPRVD SCBA &amp; FULL PROT EQUIP . MOVE CNTNR FROM FIRE AREA IF CAN BE DONE W/OUT RISK. APPLY COOLING WATER TO SIDES OF CNTNRS THAT ARE EXPOS (SUPDAT)</li> <li>Unusual Fire/Explosion Hazard:NEGLIGIBLE FIRE HAZARD IN BULK FORM; HOWEVER, DUST, POWDER, OR FUMES ARE FLAMMABLE OR EXPLOSIVE WHEN EXPOSED TO HEAT OR FLAMES.</li> </ul>
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Spill Release Procedur es:OCCUP SPILL:LG SPILL:SWEEP UP W/MIN OF DUSTING & PLACE INTO SUITABLE CLEAN, DRY CNTNRS FOR RECLAMATION/LATER DISP. RESIDUE SHOULD BE CLEANED UP USING A HIGH-EFFICIENCY PARTICULATE FILTER VACUUM. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
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Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

Other Precautions: AVOID REPEATED OR PROLONGED CONTACT WITH THIS SUBSTANCE.

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

Respiratory Protection: FOLLOWING RESPS ARE REC BASED ON INFO FOUND IN PHYSICAL DATA, TOX & HLTH EFTS SECTIONS. THEY ARE RANKED IN ORDER FROM MIN TO MAX RESP PROT. SPECIFIC RESP SELECTED MUST BE BASED ON CONTAM LEVELS FOUND IN WORK PLACE, MUST BE BASED (ING 11) Ventilation: PROVIDE LOCAL EXHAUST VENTILATION. VENTILATION EQUIPMENT MUST BE EXPLOSION PROOF. Protective Gloves: IMPERVIOUS GLOVES. Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES . Other Protective Equipment: ANSI APPRVD EYE WASH & DELUGE SHOWER. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health EXTING MEDIA: RESIST FOAM. (1990 EMER RESPONSE GUIDEBOOK, DOT P 5800.5). FOR LARGER FIRES: USE WATER SPRAY, FOG/ALCOHOL-RESIST FOAM (1990 EMER RESPONSE GUIDEBOOK, DOT P 5800.5). FIRE FIGHT PROC: TO FLAME S UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS. FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE (ING 2) Boiling Pt:B.P. Text:2840F,1560C Melt/Freeze Pt:M.P/F.P Text:520F,271C Vapor Pres:1 @ 1021C Spec Gravity:9.80 Evaporation Rate & amp; Reference: NOT KNOWN Solubility in Water: INSOLUBLE Appearance and Odor:SILVER WHITE OR REDDISH METAL WITH RHOMBIC CRYSTALS. ODORLESS. Stability Indicator/Materials to Avoid:YES ACIDS, ALUMINUM, AMMONIUM NITRATE, BRO MINE PENTAFLUORIDE, CHLORIC ACID, CHLORINE (GAS), IDODINE PENTAFLUORIDE, (ING 5) Stability Condition to Avoid: PVNT DISPERSION OF DUST IN AIR. MAY BE INGITED BY HEAT, SPKS/FLAMES. MAY BURN RAPIDLY W/FLARE BURNING EFT. MAY (ING 4) Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY RELEASE ACRID SMOKE AND IRRITATING FUMES. 

Waste Disposal Methods:OBSERVE ALL FEDERAL, STATE & LOCAL REGS WHEN STORING/DISP

## OSING OF THIS SUBSTANCE. FOR ASSISTANCE, CONT DISTRICT DIRECTOR OF THE ENVIRONMENTAL PROTECTION AGENCY.

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