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Product ID:BROMINE, CAT #0441 MSDS Date:01/01/1987 FSC:6810 NIIN:00-236-5342 **MSDS Number: BDLSY** === Responsible Party === Company Name: MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION Address: PARIS BYPASS Box:M City:PARIS State:KY ZIP:40361 Country:US Info Phone Num:314-982-5000 Emer gency Phone Num:314-982-5000 CAGE:62910 === Contractor Identification === Company Name: MALLINCKRODT SPECIALTY CHEMICALS CO Address:222 RED SCHOOL LANE Box:City:PHILLIPSBURG State:NJ ZIP:08865 Country:US Phone:908-859-2151 CAGE:62910 Ingred Name: BROMINE (SARA III) CAS:7726-95-6 RTECS #:EF9100000 Fraction by Wt: >98% OSHA PEL:0.1PPM/0.3 STEL ACGIH TLV:O.1PPM/0.3 STEL;9192 ======== Hazards Identification =======

Effects of Overexposure:INH:LIQ/VAP CORR TO BODY TISSUES;ING:CORR/VOMITG,SORE THROAT;SKIN/EYES:CORR.CAUSES PAIN,BLRRD VISION

First Aid:INHAL:RMV TO FRESH AIR.IF NEEDED,GIVE CPR/OXYGEN.GET MD;INGEST:GIVE SEVRL GL OF WATER.DO NOT INDUCE VOMITG.IMMED GET MD;SKIN:FLUSH W/LG QTY OF H*20 FOR 15 MIN.REMV CONTAMTD CLOTHES.GET MD;EYES:IMMED F LUSH W/PLENTY OF H*20 FOR AT LEAST 15 MIN.GET MD.

Flash Point:NONE

Extinguishing Media:EXTINQUISH W. AGENT SUITABLE FOR SURROUNDING FIRE. Fire Fighting Procedures:WEAR SELF-CNTD BRTHG,APP H*20 SPRAY TO COOL CONTR.

Unusual Fire/Explosion Hazard:NOT CONSDRD AS EXPLSN HAZARD;FUMES ARE EMITD WHEN HEATD.VAP CAN FLOW ALONG SURFCS TO LYING AREAS.

Spill Release Procedures:ESTABLSH PLAN/TRNG FOR EMERGY.KEEP UP

WIND.VENT/EVAC AREA.USE PROTCTV CLOTHG/RESP EQUIP.CONTAIN/RECUR SPILLS IF POSS.NEUTRLZ SM SPILLS W/NA*2S*2O*3 SOLN.DIKE LG SPILL W/SAND.SPRAY WATER TO 1 INCH.CAREF ULLY,NEUTRLZ VAP IN AIR W/ANHYD NH*3(SEE DISPOSL)*

Handling and Storage Precautions: KEEP IN TIGHTLY CLOSED CONTNRS AT COOL, DRY, VENTILATED PLACE. PROTECT AGAINST PHY DAMAGE. KEEP ABOVE 20F TO AVOID FREEZING BUT AVOID HEATG ABOVE ATM TEMP Other Preca

utions:AVOID BREATHING MIST.USE W/ADEQUATE VENTILATION.KEEP CONTAINRS CLOSED.WASH THOROUGHLY AFTER HANDLING.AVOID SKIN,EYES & CLOTHING CONTACT.**NOTE:ALLOW ONLY QUALIFIED PERSONS TO WORK W/BROMINE.

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

Respiratory Protection:SUPPLIED AIR RESPIR/SCBA; ESCAPE: GAS MASK Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV. Protective Gloves:IMPERVIOUS Eye Protection:GOGGLES/FACE SHIELD Other Protective Equipment:FULL PROTECTIVE CLOTHING, SAFETY SHOWER, EYE WASH STATION Supplemental Safety and Health MSDS FROM MFR DATED:1 AUG 85 CONFORMS TO OSHA HAZ COMM STD; REACTS W/WATER OR STEAM TO PRODUCE FUMES OF HYPOBROMOUSACID & HYDROGEN BROMIDE:

HCC:C1 Boiling Pt:B.P. Text:58C(136F) Vapor Pres:175 Vapor Density:5.5 Spec Gravity:3.1 Solubility in Water:MODERATE Appearance and Odor:DARK,REDDISH-BROWN FUMING LIQUID W/PUNGENT ODOR

Stability Indicator/Materials to Avoid:YES WATER,REDUCING AGENTS,FLAMM MATL,HG,TI,&AL. Hazardous Decomposition Products:EMITS FUMES OF BROMINE & BROMIDES UPON THRML DECOMPOSITION.

Waste Disposal Methods:*NEUTRLZ LIQ BROMINE W/SOLNS OF POT CARBONATE,SOD CARBONATE OR SOD BICARBONATE.COLLECT OR FLUSH TO SUMP FOR DISPOSAL; DISPOSAL:NEUTRALIZED WASTE MAY BE CONTNRZD & DISP OSD

IN AN APPRVD WASTE DISPOSAL F ACILITY I/A/W LOC,ST,FED REGS;SALVAGE BROMIN WASTE

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