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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

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

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 ======

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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.
========= Fire Fighting Measures ===============
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.
======== Accidental Release Measures ==========
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 ==============
Handling and Storage Precautions:KEEP IN TIGHTLY CLOSED CONTNRS AT COOL,DRY,VENTILATED PLACE.PROTECT AGAINST PHY DAMAGE.KEEP ABOVE 201 TO AVOID FREEZING BUT AVOID HEATG ABOVE ATM TEMP Other Preca
utions:AVOID BREATHING MIST.USE W/ADEQUATE VENTILATION.KEEP  CONTAINES 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;
========= Physical/Chemical Properties ==========
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
========= St ability and Reactivity Data ==========
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.
======= Disposal Considerations ==========
Waste Disposal Methods:*NEUTRLZ LIQ BROMINE W/SOLNS OF POT CARBONATE,SOD CARBONATE OR SOD BICARBONATE.COLLECT OR FLUSH TO SUMF FOR DISPOSAL; DISPOSAL:NEUTRALIZED WASTE MAY BE CONTNRZD & DISPOSD
IN AN ADDDIVE WASTE DISCOUNT FACILITY WAS AND OR OT FED DECO CALLYAGE

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

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