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MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- AMMONIUM HYDROXIDE 6810-00-753-4784 Product ID: AMMONIUM HYDROXIDE MSDS Date:04/06/1989 FSC:6810 NIIN:00-753-4784 MSDS Number: BJXNP === 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:800-354-2050(PRE SS 3)/314-982-5000 Emergency Phone Num:800-354-2050/314-539-1600 CAGE:62910 === Contractor Identification === Company Name: BAXTER HEALTHCARE CORP/PHARMASEAL DIVISION Address:808 HIGHWAYY 24 WEST Box:City:MOBERLY State:MO ZIP:65270 Country:US CAGE:19484 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: AMMON

IUM HYDROXIDE (SARA III) CAS:1336-21-6 RTECS #:BQ9625000 Fraction by Wt: 100% Other REC Limits:TRANS PEL:50 PPM EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:VENT:GENERALLY PREFERRED BECAUSE IT CAN CONTROL EMISSIONS OF CONTAMINANT AT SOURCE, PVNTG DISPERSION INTO WORK AREA. RTECS #:9999992Z

LD50 LC50 Mixture:LD50:ORAL RAT 350 MG/KG Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO **Reports of Carcinogenicity** :NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INHAL: MAY CAUSE IRRIT TO RESP TRACT, SYMPS MAY INCLUDE COUGHING, SORE THROAT & LABORED BRTHG. HIGH CONCS MAY CAUSE LARYNGITIS, TRACHEITIS, PULMONARY EDEMA, CHEST PAINS, OR PNEUMONITIS. INGEST: TOXIC! M AY CAUSE CORR TO ESOPHAGUS & STOM W/PERFORATION & PERITONITIS. SYMPS MAY INCLUDE PAIN IN MOUTH, (SEE EFTS OF OVEREXP) Explanation of Carcinogenicity:NOT RELEVANT Effects of Overexposure:HLTH HAZ:CHEST & ABDOMEN W/COUGHI NG, VOMITING & COLLAPSE. SKIN: MAY CAUSE BURNS W/VESICATION. EYE: VAPS MAY CAUSE **IRRIT. SPLASHES MAY CAUSE SEVERE PAIN & EYE INJURIES SUCH AS** GLAUCOMA, CORNEAL SCARS, IR IS ATROPHY & CATARACTS. Medical Cond Aggravated by Exposure: PERSONS W/PRE-EXISTING EYE DISORDERS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO EFFECTS OF MATERIAL.

First Aid:INHAL:REMOVE TO FRESH AIR. IF NOT BRTHG, GIVE ARTF RE SP. IF

BRTHG DFCLT, GIVE OXYGEN. CALL MD. INGEST:GIVE SEVERAL GLASSES OF WATER TO DRINK TO DILUTE. VOMIT MAY OCCUR SPONTANEOUSLY, BUT DO NOT INDUCE . GET MD. SKIN:IMMED FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINS WHILE REMOVING CONTAM CLTHG & SHOES. CALL MD. EYE:WASH W/PLENTY OF WATER FOR AT LEAST 15 MINS, LIFTING LOWER/UPPER LIDS. GET MD IMMED.

Lower Limits:16 (NH\*3) Upper Limits:27 (NH\*3) Extinguish ing Media:WATER SPRAY TO BLANKET FIRE, COOL FIRE EXPOSED CNTNRS & TO FLUSH NON-IGNITED SPILLS OR VAPORS AWAY FROM FIRE. Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA W/FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE AND FULL PROTECTIVE EQUIPMENT. Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE AN EXPLOSION HAZARD. Spill Release Procedures: VENT/EVACUATE AREA. CLEAN-UP PERSONNEL REQUIRE PROT CLTHG & RESP PROT FROM VAPS. ALLOW ONLY QUALIFIED PERSONNEL TO HANDLE SPILL. CONTAIN/RECOVER LIQ WHEN POSS. SPILLS MAY BE NEUTRALIZED W/DILUTE HYDR OCHLORIC ACID OR DILUTE SULFURIC (SEE SUPP DATA) Neutralizing Agent: DILUTE HYDROCHLORIC ACID OR DILUTE SULFURIC ACID. Handling and Storage Precautions: KEEP IN TIGHTLY CLOSED CNTNR, STORED IN COOL, DRY, VENT AREA. PROTECT AGAINST PHYSICAL DMG. SEPA RATE FROM INCOMPATIBLES. PROTECT FROM DIRECT SUNLIGHT. Other Precautions: WARNING! HARMFUL IF SWALLOWED/INHALED. CAUSES BURNS. DO NOT GET IN EYES, ON SKIN/CLTHG. AVOID BRTHG VAP. KEEP CNTNR CLOSED. USE W/ADEQ VENT. WASH THORO AFTER HANDLING. SUBSTANCE CLASSIFIED AS POISON U NDER FEDERAL CAUSTIC POISON ACT. Respiratory Protection: USE NIOSH/MSHA APPROVED DUST/MIST RESPIRATOR W/CHEMICAL GOGGLES IN GENERAL UP TO TEN TIMES THE TLV. CONSULT RESPIRATOR SUPPLIER FOR LIMITATIONS. ALTERNATIVELY, NIOSH/MSHA APPRVD SUPPLIED AIR FULL FACE PIECE RESP OR AIRLINED HOOD MAY BE WORN. Ventilation:LOCAL/GENERAL EXHAUST RECOMMENDED TO KEEP EXPOS BELOW AIRBORNE EXPOS LIMITS. LOCAL EXHST VENT IS (SEE INGRED 2) Protective Gloves: IMPERVIOUS GLOVES. Eye Protection: CHEM WORKERS GOGGLES, FACESHLD OPT Other Protective Equipment: IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, LAB COAT, APRON OR COVERALLS. E

YEWASH FOUNTAIN/QUICK DRENCH FACILITY. Work Hygienic Practices: CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING W/THIS MATERIAL. WASH THOROUGHLY AFTER HANDLING. Supplemental Safety and Health MATLS TO AVOID:SILVER PERMANGANATE, OLEUM, BETA-PROPIOLACTONE. SPILL PROC: ACID & DISCHARGED TO SEWER W/ LARGE AMTS OF WATER. REGS FOR PH, AMMONIA CONTENT & SALTS FOR EFFLUENTS MUST BE CONSIDERED. DO N OT FLUSH DIRECTLY TO SEWERS, ALTERNATIVELY, SPILLS MAY BE ABSORBED W/DRY INERT MATL & COLLECTED FOR DISPOSAL.RQ:1000 LBS HCC:C2 Boiling Pt:B.P. Text:97.0F,36.1C Melt/Freeze Pt:M.P/F.P Text:-98F,-72C Vapor Pres:115 @ 20C Vapor Density:1.2 Spec Gravity:0.9 Solubility in Water:INFINITE Appearance and Odor: CLEAR, COLORLESS SOLUTION, AMMONIA ODOR Stability Indicator/Materials to Avoid:YES ACIDS, ACROLEIN, DIMETHYL SULFATE, HALOGENS, SILVER NITRA TE, PROPYLENE OXIDE, NITROMETHANE, SILVER OXIDES (SEE SUPP DATA) Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products: EMITS TOXIC FUMES OF AMMONIA AND NITRIC OXIDES WHEN HEATED TO DECOMPOSITION. 

Waste Disposal Methods:DISPOSE I/A/W FEDERAL, STATE AND LOCAL REGULATIONS.

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