

MALLINCKRODT INC.,SCIENCE PRODUCT DIVISION -- AMMONIUM HYDROXIDE -- 6810-00-065-3142  
===== Product Identification =====

Product ID:AMMONIUM HYDROXIDE  
MSDS Date:01/01/1987  
FSC:6810  
NIIN:00-065-3142  
MSDS Number: BCXBB  
=== Responsible Party ===  
Company Name:MALLINCKRODT INC.,SCIENCE PRODUCT DIVISION  
Address:PARIS BYPASS  
Box:M  
City:PARIS  
State:KY  
ZIP:40361  
Country:US  
Info Phone Num:314-982-5000  
Emerg  
ency 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:AMMONIUM HYDROXIDE (SARA III)  
CAS:1336-21-6  
RTECS #:BQ9625000  
Fraction by Wt: 29.4%  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:PER MFR SPEC ABOVE SOLUTION IS 26 BE DEGREE AT

60F.(4/30/86)  
RTECS #:9999999ZZ

Ingred Name:WATER; CAS #7732-18-5  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 70.6%

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Hazards Identification  
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Effects of Overexposure:INH:MAY IRRIT RESP TRACT;ING:TOXIC.MAY CAUSE  
CORR TO ESOPHAGUS;SKIN/EYES:MAY CAUSE SKIN/EYE BURNS.

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First Aid Measures  
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First Aid:INHAL:RMV TO FRESH AIR.IF NEEDED,GIVE CPR/OXYGEN.GET  
MD;INGEST:GIVE SEVRL GL OF WATER.DO NO  
T INDUCE VOMITG.IMMED GET  
MD;SKIN:FLUSH W/LG QTY OF H\*2O FOR 15 MIN.REMV CONTMNTD CLOTHES.GET  
MD;EYES:IMMED F LUSH W/PLENTY OF H\*2O FOR AT LEAST 15 MIN.GET MD.

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Fire Fighting Measures  
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Flash Point:NONE  
Autoignition Temp:Autoignition Temp Text:651C  
Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTINGUISHING  
SURROUNDING FIRE.  
Fire Fighting Procedures:WEAR SELF-CNTD BRTHG,APP H\*2O SPRAY TO COOL  
CONTR.  
Unusual Fire/Explosion Hazard:NOT C  
ONSIDERED TO BE AN EXPLOSION HAZARD.

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Accidental Release Measures  
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Spill Release Procedures:VENTILATE & EVAC AREA.USE PROTCTV CLOTHG &  
RESP PROTCTION FM VAP.CONTAIN & RECOVR LIQ WHEN POSS.SPILLS MAY BE  
ABSORBD W/INERT MATL & COLLECTD FOR DISPL;NEUTRALIZE SPILL W/DIL  
HCL/H\*2SO\*4 & DISCHARGE T O SEWER.CONSDR PH.REGS;NEVER FLUSH  
DIRCTLY TO SEWR

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Handling and Storage  
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Handling and Storage Precautio

ns:KEEP IN TIGHTLY CLOSED CONTNRS AT  
COOL, DRY, VENTILATED PLACE. PROTECT AGAINST PHY DAMAGE. PROTECT FM  
DIRECT SUNLIGHT. WASH THOROUGHLY AFTER HANDLING.  
Other Precautions: AVOID BREATHING DUST. USE W/ADEQUATE VENTILATION. KEEP  
CONTAINRS CLOSED. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING; THIS IS  
CLASSFD AS A POISON UNDR THE FED CAUSTIC POISON ACT; CLOSE CAP AFTER  
USE.

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

Respiratory Protection: SUPPLIED AIR RESPIR/SCBA; E  
SCAPE: 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 FM MFR DATED: 07/22/85, CONFORMS TO OSHA HAZ COMM STD; VAP PR AT 20C  
FOR AMMONIA NOTED 115(MM HG); PER MFR SOLUTION STRENGTH: 26BE(29.4%)  
AT 60F; ITEM IS TYPE I OF SPEC O-A-451

===== Physical/Chemical Properties =====

HCC: B1  
Boiling Pt: B.P. Text: 36C(97F)  
Vapor Pres: 115  
Vapor Density: 1.2  
Spec Gravity: 0.9  
Evaporation Rate & Reference: NONE KNOWN  
Solubility in Water: COMPLETE  
Appearance and Odor: CLEAR, COLORLESS SOLUTION, ODOR OF AMMONIA  
Percent Volatiles by Volume: UNK

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES  
OXIDIZERS, ACIDS, HALOGENS, AGNO\*3, OLEUM, BETA-PROPIOLACTONE.  
Stability Condition to Avoid: NOT KNOWN  
Hazardous Decomposition Products: OXID

ES OF NITROGEN, AMMONIA WHEN  
HEATED TO DECOMPOSITION.

===== Disposal Considerations =====

Waste Disposal Methods:DISCHARGE NEUTRALIZED SPILL/WASTE LIQ TO  
SEWERS.REGULATIONS FOR PH,AMMONIA CONTENT AND SALTS FOR EFFLUENTS  
MUST BE CONSIDERED.DISPOSE OF THE ABOSRBED SPILL IN AN RCRA  
APPROVED FACILITY.ENSURE COMPLIAN CE W/LOCAL,FED & STATE  
REGS;CWA/CERCLA RQ:1000LBS.

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