

MALLINCKRODT INC.,SCIENCE PRODUCT DIVISION -- AMMONIUM HYDROXIDE -- 6810-01-018-6726

===== Product Identification =====

Product ID:AMMONIUM HYDROXIDE

MSDS Date:01/01/1987

FSC:6810

NIIN:01-018-6726

MSDS Number: BGDWB

=== 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

Emerge

ncy 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%

===== Hazards Identification =====

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

===== First Aid Measures =====

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*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.

===== Fire Fighting Measures =====

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 CO
NSIDERED TO BE AN EXPLOSION HAZARD.

===== Accidental Release Measures =====

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

===== Handling and Storage =====

Handling and Storage Precaution

s: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; ES
CAPE: 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 IAW SPCCA-HX-QC SPEC; MIL-STD-1218.

===== 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 Produ

cts:OXIDES 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 ABSORBED SPILL IN AN RCRA
APPROVED FACILITY.ENSURE COMPLIAN CE W/LOCAL,FED & STATE
REGS;CWA/CERCLA RQ:1000LBS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.