

MICHLIN CHEMICAL CORPORATION -- O-A-451,AMMONIUM HYDROXIDE,TECHNICAL --  
6810-00-826-6121

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

Product ID:O-A-451,AMMONIUM HYDROXIDE,TECHNICAL

MSDS Date:01/01/1985

FSC:6810

NIIN:00-826-6121

MSDS Number: BFRLC

=== Responsible Party ===

Company Name:MICHLIN CHEMICAL CORPORATION

Address:10501 HAGGERTY ST

City:DEARBORN

State:MI

ZIP:48126

Country:US

Emergency Phone Num:313-

846-5700

CAGE:8H736

=== Contractor Identification ===

Company Name:MICHLIN CHEMICAL CORPORATION

Address:10501 HAGGERTY ST

Box:City:DEARBORN

State:MI

ZIP:48126

Country:US

Phone:313-846-5700/800-424-9300(CHEMTREC)

CAGE:8H736

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

Ingred Name:AMMONIUM HYDROXIDE (SARA III)

CAS:1336-21-6

RTECS #:BQ9625000

Fraction by Wt: 29.0%

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 7

1.0%

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

Effects of Overexposure:ULCERS OF CORNEA & COMJUNCTIVITIS; CORNEAL & LENTICULAR CLOUDINESS,IRRITATION OF EYES & THROAT,COUGH

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

First Aid:FLUSH CONTACTED AREA WITH WATER FOR AT LEAST 15 MINUTES. CONSULT DOCTOR.WASH CONTAMINATED AREAS OF BODY WITH SOAP & WATER.SUPPLY OXYGEN WITH USE OF INTERMITTENT POSITIVE PRESSURE BREATHING APPARATUS.S E DATION IF NECESSARY.

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

Flash Point:NONE  
Lower Limits:16.0  
Upper Limits:25.0  
Extinguishing Media:NONE  
Fire Fighting Procedures:NONE  
Unusual Fire/Explosion Hazard:AMMONIA VAPORS RELEASED FROM SOLUTION CAN FORM AN EXPLOSIVE MIXTURE WITH AIR

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

Spill Release Procedures:AVOID PHYSICAL CONTACT & INHALATION OF VAPORS.DILUTE WITH LARGE QUANTITIES OF WATER.NEUTRALIZE WITH HCL.WIPE WITH MOP OR USE WATER ASPIRATOR.DRAIN INTO AN APPROVED DISPOSAL AREA

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

Handling and Storage Precautions:BOTTLES WITH GLASS,PLASTIC OR RUBBER PLUG MUST NOT FILL COMPLETELY TO THE BRIM & MUST BE STORED IN COOL PLACE.KEEP AWAY FROM STRONG ACIDS.  
Other Precautions:WEAR RUBBER GLOVES,LARGE FACE SHIELD & GENERAL PURPOSE GAS MASK.ADEQUATE VENTILATION. PRECLUDE FROM EXPOSURE THOSE INDIVIDUALS W

# ITH EYE & PULMONARY DISEASES

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

Respiratory Protection:SELF CONTAINED BREATHING APPARATUS WHEN REQUIRED.

Ventilation:SUFFICIENT TO KEEP AMMONIA AT LESS THAN 50 PPM.

Protective Gloves:RUBBER.

Eye Protection:SAFETY GOGGLES.

Other Protective Equipment:LARGE FACE SHIELD & GENERAL PURPOSE GAS MASK.

Supplemental Safety and Health

THE ITEM IS CONSIDERED TYPE I IN FEDERAL SPECIFICATION OA 451

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

HCC:B1

Boiling Pt.=100.C, 212.F

Vapor Pres:584

Vapor Density:0

Spec Gravity:0.8974

Evaporation Rate & Reference:LT 1-ETHER

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQUID,PUNGENT ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS

Hazardous Decomposition Products:NONE

## ===== Disposal Considerations =====

Waste Disposal Methods:PUT INTO LARGE VESSEL CONTAINING WATER.NEUTRALIZE WITH HCL.DISCHARGE INTO AN APPROVED DISPOSAL AREA.

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.