

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%

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

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First Aid Measures  
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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.

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Fire Fighting Measures  
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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

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Accidental Release Measures  
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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

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Handling and Storage  
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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.

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