

MICHLIN CHEMICAL CORPORATION -- O-A-451,AMMONIUM HYDROXIDE,TECHNICAL,TY.1 --  
6810-00-817-9929

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

Product ID:O-A-451,AMMONIUM HYDROXIDE,TECHNICAL,TY.1

MSDS Date:01/01/1985

FSC:6810

NIIN:00-817-9929

MSDS Number: BFQSJ

=== Responsible Party ===

Company Name:MICHLIN CHEMICAL CORPORATION

Address:10501 HAGGERTY ST

City:DEARBORN

State:MI

ZIP:48126

Country:US

Emergency Phon

e Num:NONE

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:

71.0%

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

Effects of Overexposure:IRRITATION OF EYES AND  
SUPPORT,HEADACHE,SALIVATION,NAUSEA,VOMITING,COUGH,PULMONARY  
EDEMA,ULCERATION.

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

First Aid:FLUSH CONTACTED AREA WITH WATER FOR AT LEAST 15  
MINUTES.CONSULT PHYSICIAN.IRRIGATE EYES WITH WATER,THEN INSTILL  
OLIVE OIL.WASH CONTAMINATED AREAS OF BODY WITH SOAP AND  
WATER.SUPPLY OXYGEN,WITH USE  
OF INTERMITTENT POSITIVE PRESSURE  
BREATHINGAPPARATUS

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

Flash Point:NONE  
Lower Limits:16.0  
Upper Limits:25.0  
Extinguishing Media:PRODUCT IS NON COMBUSTIBLE  
Fire Fighting Procedures:NONE  
Unusual Fire/Explosion Hazard:AMMONIA VAPORS RELEASED FROM SOLUTION CAN  
FORM AN EXPLOSIVE MIXTURE WITH AIR AS DESCRIBED ABOVE.

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

Spill Release Procedures:NEUTRALIZE WIT  
H HCL.WIPE WITH MOP OR USE WATER  
ASPIRATOR.DRAIN INTO APPROVED DISPOSAL AREA.

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

Handling and Storage Precautions:BOTTLES WITH GLASS,PLASTIC OR RUBBER  
PLUG MUST NOT BE FILLED COMPLETELY TO THE BRIM AND MUST BE STORED  
IN COOL PLACE.KEEP AWAY FROM STRONG ACIDS.

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

Respiratory Protection:SELF CONTAINED AIR BRATHING APPARATUS,OR GENERAL  
PURPOSE GAS MAS

K

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

Protective Gloves:RUBBER

Eye Protection:GOGGLES

Other Protective Equipment:LARGE FACE SHIELD

Supplemental Safety and Health

THIS PRODUCT IS ALSO KNOWN AS AQUA AMMONIA

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

HCC:B1

Boiling Pt:=100.C, 212.F

Vapor Pres:584

Vapor Density:0

Evaporation Rate & Reference:LTI REF: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

INORGANIC ACIDS

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

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

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