

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 P

hone 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%

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

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First Aid Measures  
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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  
BREATHING APPARATUS

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Fire Fighting Measures  
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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.

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Accidental Release Measures  
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Spill Release Procedures:NEUTRALIZE  
WITH HCL.WIPE WITH MOP OR USE WATER  
ASPIRATOR.DRAIN INTO 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 BE FILLED COMPLETELY TO THE BRIM AND MUST BE STORED  
IN COOL PLACE.KEEP AWAY FROM STRONG ACIDS.

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Exposure Controls/Personal Protection  
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Respiratory Protection:SELF CONTAINED AIR BRATHING APPARATUS,OR GENERAL  
PURPOSE GAS

MASK  
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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