

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 11.05.2014

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Ammonium Hydroxide, 3M

SECTION 1 : Identification of the substance/mixture and of the supplier

Product name : Ammonium Hydroxide, 3M

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25844

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification

Classification of the substance or mixture:



Environmentally Damaging

Acute hazards to the aquatic environment, category 1



Corrosive

Serious eye damage, category 1

Acute toxicity (oral, dermal, inhalation), category 1

Eye Damage. 1

Aquatic AcTox. 1

AcTox Oral. 4

Skin Corr. 1

Signal word :Danger

Hazard statements:

Causes severe skin burns and eye damage

Harmful if swallowed

Very toxic to aquatic life

Precautionary statements:

Wash ... thoroughly after handling

Avoid release to the environment

Wear protective gloves/protective clothing/eye protection/face protection

Do not eat, drink or smoke when using this product

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

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Continue rinsing
Wash contaminated clothing before reuse
Collect spillage
Store locked up
Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified (HNOC) or not covered by GHS::

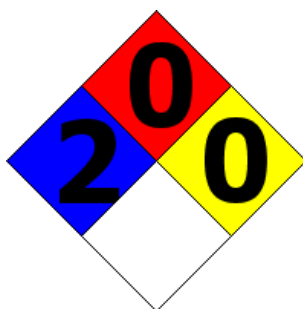
Lachrymator

Other Non-GHS Classification:

WHMIS



NFPA/HMIS



NFPA SCALE (0-4)

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 1336-21-6	Ammonium Hydroxide, ACS	20 %
CAS 7732-18-5	DI Water	80 %
Percentages are by weight		

SECTION 4 : First aid measures

Description of first aid measures

- After inhalation:** Get medical assistance.
- After skin contact:** Get medical assistance.
- After eye contact:** Continue rinsing eyes during transport to hospital.
- After swallowing:** Get medical assistance.

Most important symptoms and effects, both acute and delayed:

;

Indication of any immediate medical attention and special treatment needed:

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SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents:

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Advice for firefighters:

Protective equipment:

Additional information (precautions):

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Environmental precautions:

Methods and material for containment and cleaning up:

Soak up with inert absorbent material.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Conditions for safe storage, including any incompatibilities:

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8 : Exposure controls/personal protection

Control Parameters: 1336-21-6, Ammonium Hydroxide, TWA 25.000000 ppm USA. ACGIH
1336-21-6, Ammonium Hydroxide , TWA 25.000000 ppm 18.000000
mg/m3 USA. NIOSH

Appropriate Engineering controls:

Respiratory protection:

Protection of skin:

Eye protection:

General hygienic measures:

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Clear colorless liquid	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined
Odor:	Odorless	Vapor pressure:	115 at 20 C
Odor threshold:	Not Determined	Vapor density:	3.38
pH-value:	Alkaline	Relative density:	0.9 g/mL at 25 °C
Melting/Freezing point:	- 72 C	Solubilities:	Material is water soluble.
Boiling point/Boiling range:	36 C	Partition coefficient (n-octanol/water):	Not Determined

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Flash point (closed cup):	Not Determined	Auto/Self-ignition temperature:	Not Determined
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	Not Determined	Viscosity:	a. Kinematic:Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

Reactivity:

Chemical stability:

Possible hazardous reactions:

Conditions to avoid:

Incompatible materials:Copper, Iron, Zinc

Hazardous decomposition products:Nitrogen oxides.

SECTION 11 : Toxicological information

Acute Toxicity: No additional information.	
Chronic Toxicity: No additional information.	
Corrosion Irritation: No additional information.	
Sensitization:	No additional information.
Single Target Organ (STOT):	No additional information.
Numerical Measures:	No additional information.
Carcinogenicity:	No additional information.
Mutagenicity:	No additional information.
Reproductive Toxicity:	No additional information.

SECTION 12 : Ecological information

Ecotoxicity Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Other adverse effects:

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION 14 : Transport information

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UN-Number

2672

UN proper shipping name

Ammonia solution

Transport hazard class(es)



Class:

8 Corrosive substances

Packing group:III

Environmental hazard:

Transport in bulk:

Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

1336-21-6 Ammonium hydroxide 1000 lbs

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

1336-21-6 Ammonium hydroxide

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SECTION 16 : Other information

GHS Full Text Phrases:

Abbreviations and acronyms:

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Last updated : 03.23.2015