



SAFETY DATA SHEET

Preparation Date: 11/03/2014 Revision Date: 12/23/2014 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: A1195

Product Name: AMMONIUM HYDROXIDE, REAGENT, ACS

Other means of identification

Synonyms: Aqueous Ammonia

Aqua ammonia

Ammonium Hydroxide with 27-31% Ammonia and 69-73% Water

CAS #: 1336-21-6
RTECS # BQ9625000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Bleaching agent. In the manufacturer of textiles. Detergent.

Uses advised against No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Skin corrosion/irritation	Category 1Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

Label elements

Product code: A1195

Product name: AMMONIUM HYDROXIDE, REAGENT, ACS

Danger

Hazard statements

Harmful if swallowed

Harmful if inhaled

Causes severe skin burns and eye damage

May cause respiratory irritation



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Very toxic to aquatic life with long lasting effects

Very toxic to aquatic life

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

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

Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

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

Wash contaminated clothing before reuse

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. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Rinse mouth

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components CAS-No. Weight % Trade Secret
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Product code: A1195 Product name: AMMONIUM 2 / 14
HYDROXIDE, REAGENT, ACS

3. COMPOSITION/INFORMATION ON INGREDIENTS							
Ammonium Hydroxide (CAS no. 1336-21-6) [Consists of 20-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water (CAS no. 7732-18-5)]		100	*				

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First

aider needs to protect himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for

at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention

is required. Call a physician immediately.

Eye Contact: Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician

immediately.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth

resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician

immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. If victim is conscious, give water or milk. Immediate medical attention is

required. Call a physician or Poison Control Centre immediately.

Most important symptoms and effects, both acute and delayed

Symptoms

Severe skin and eye irritation or burns. May cause inflammation and cause deep, penetrating ulcers of the skin, staining of the skin, and thickening of the skin. Causes digestive (gastrointestinal) tract irritation. May cause gastrointestinal (digestive) tract burns. Severe irritation of the upper respiratory tract. May cause chemical burns to the respiratory tract. May

cause central nervous system effects. May affect the cardiovascular system.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Product code: A1195 Product name: AMMONIUM 3 / 14
HYDROXIDE, REAGENT, ACS

Hazardous Combustion Products: ammonia; nitrogen oxides

No information available. Specific hazards:

Special Protective Actions for Firefighters

No information available. Specific Methods:

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Use

personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not let product enter drains. Do not flush into surface water or

sanitary sewer system. Prevent entry into waterways, sewers, basements or confined

areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite,

dry sand or earth).

Dilute with water. Neutralize the with a dilute solution of acetic acid. Use appropriate Methods for cleaning up

tools to put the spilled material in a suitable chemical waste disposal container.

Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature in the original container. Keep at temperatures below 26 °C. Store in a segrated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents. Acids. Metals. Powdered metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

Product code: A1195 4/14 **Product name: AMMONIUM**

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
Ammonium Hydroxide (CAS no.				
1336-21-6)				
[Consists of 20-31% Ammonia (CAS				
no. 7664-41-7) in 69-73% Water				
(CAS no. 7732-18-5)] -				

Canada

Components	Alberta	British Columbia	Ontario	Quebec
	None	None	None	None
Ammonium Hydroxide (CAS no.				
1336-21-6)				
[Consists of 20-31% Ammonia (CAS				
no. 7664-41-7) in 69-73% Water				
(CAS no. 7732-18-5)] -				

Australia and Mexico

Components	Australia	Mexico
Ammonium Hydroxide (CAS no.	None	None
1336-21-6)		
[Consists of 20-31% Ammonia (CAS		
no. 7664-41-7) in 69-73% Water		
(CAS no. 7732-18-5)]		

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Product code: A1195

Eye protection: Face-shield.

Skin and body protection: Chemical resistant protective suit. Gloves. boots.

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Product name: AMMONIUM HYDROXIDE, REAGENT, ACS

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color

Liquid. No information available Clear. Colorless.

Odor:TasteFormula:Strong. Ammonia.acrid.NH4OH

Molecular/Formula weight:Flash point (°C):Flashpoint (°C/°F):35.05No data availableNo information available.

Flash Point Tested according to: Lower Explosion Limit (%): Upper Explosion Limit (%):

Not available No information available No information available

Autoignition Temperature (°C/°F): pH: Melting point/range(°C/°F):

No information available 11.6 - this is the actual pH in a 1 N -69.2 °C/-92.6 °F

solution

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): Specific gravity:

31-38 °C/87.8-100.4 °F No information available 0.898

Density (g/cm3): Vapor pressure @ 20°C (kPa):

No information available No information available 287.9 @ 25 °C

Evaporation rate: Vapor density: VOC content (g/L):
No information available No information available No information available

Odor threshold (ppm): Partition coefficient Viscosity:

5-50 (as ammonia) (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Easily soluble in cold water

10. STABILITY AND REACTIVITY

Reactivity

Halogens, salts of silver and zinc, air and hydrocarbons, calcium, 1-chloro-2,4-dinitrobenzene, chloroformamidinium nitrate, 2chloronitrobenzene, chlorine azide, magnesium perchlorate, halogens or interhalogens, iodine, potassium, nitrogen trichloride, potassium chlorate, nitryl chloride, chromyl chloride, chromium trioxide, trioxygen difluoride, selenium difluoride dioxide, nitric acid, hydrogen peroxide, nitrogen oxide, dinitrogen tetraoxide, oxygen, platinium, silver chloride, thiocarbonyl azide thiocyanate, sulfinyl chloride, thiotrithiazyl chloride, tetramethylammonium amide, tellurium tetrachloride, tellurium tetrabromide, silver (I) oxide, dichlorine oxide, silver nitrate, ethylene oxide, acetaldehyde, acrolein, boron, boron triiodide, bromine, bromine pentafluoride, fluorine, chloric acid, chlorine monoxide, chlorine trifluoride, chlorites, chlorosilane, chromic anhydride, ethylene dichloride, hydrogen bromide, hypochlorous acid, nitrogen peroxide, fluorine, some heavy metals (gold, silver, mercury), hexachloromelamine, hydrazine, alkali metals, nitrogen trifluoride, oxygen difluoride, phosphorous trioxide, potassium and arsine, potassium and phosphine, potassium and sodium nitrite, potassium ferricyanide, potassium mercuricyanide, sodium and carbon monoxide, stibine, sulfur, sulfur dichloride, tellurium hydropentachloride, trichloromelamine, Organic acids, amides, organic anhydrides, isocyanates, vinyl acetate, epichlorhydrin, aldehydes, Acrylic acid, chlorosulfonic acid, dimethyl sulfate, fluorine, gold + aqua regia, hydrochloric acid, hydrofluoric acid, hydrogen peroxide, iodine, nitric acid, olelum, propiolactone, propylene oxide, silver nitrate, silver oxide + ethyl alcohol, nitromethane, silver permanganate, sulfuric acid, gold, mercury, and halide salts. Forms explosive compounds with many heavy metals (silver, lead, zinc). Forms explosive compounds with many heavy metals such as silver, lead, zinc and their halide salts. It can form shock sensitive compounds with halogens, mercury oxide, and siliver oxide

Chemical stability

Stability: Stable at normal conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Incompatible materials.

Incompatible Materials: Oxidizing agents. Acids. Metals. Powdered metals.

Product code: A1195 Product name: AMMONIUM 6 / 14
HYDROXIDE, REAGENT, ACS

Hazardous decomposition products: Ammonia gas may be liberated at high temperatures.. Nitrogen oxides (NOx).

Other Information

Corrosivity: Severe corrosive effect on Brass

Severe corrosive effect on Bronze

Special Remarks on Corrosivity: Dissolves copper and zinc.

Corrosive to aluminum and its alloys. Corrosive to galvanized surfaces.

Severe corrosive effect on brass and bronze

Liquid Ammonia or Ammonium Hydroxide will attack some forms of plastics, rubber and coatings such as ABS, Acetal, Hytrel, Buna (Nitrile), Natural Rubber, LDPE,

Nylon, Polycarbonate, Hypalon, and Viton.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Skin. Inhalation. Ingestion. Eyes.

Acute Toxicity

Component Information

Ammonium Hydroxide (CAS no. 1336-21-6)

[Consists of 20-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water (CAS no. 7732-18-5)] -

LD50/oral/rat = = 350 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = 2000 ppm 4 hours LC50 inhalation Rat (for Ammonia)

4230 ppm 1 hour LC50 inhalagion Mouse (for Ammonia)

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 350mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = 6666-1000ppm (4-hr)

VALUE-Dust/Mist = No information available

Product code: A1195 Product name: AMMONIUM 7 / 14

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Severe skin irritation. Causes skin burns. May cause deep penetrating ulcers of the

skin. Contact with skin may cause staining, inflammation, and thickening of the skin.

Eye Contact: Severe eye irritation. Causes eye burns. May cause irreversible eye damage. May

cause corneal damage. May cause cataracts.

Inhalation Causes severe irritation of the respiratory tract and mucous membranes with

coughing, burns, breathing difficulty, and possible coma. Irritation may lead to chemical pneumonitis, pneumoconiosis, fibrosis, and pulmonary edema. Can cause

chemical burns to the respiratory tract and mucous membranes

It is a respiratory stimulant when inhaled at lower concentrations. It may also affect

behavior/central nervous system (convulsions, seizures, ataxia, tremor), cardiovascular system (increase in blood pressure and pulse rate).

Ingestion Harmful if swallowed. Causes astrointestinal tract corrosion, burns, swelling of the

lips, mouth, and larynx, throat constriction, nausea, vomiting, convulsions, shock and may cause severe and permanent damage to the digestive tract with perforaiton of the digestive tract. It may also affect the liver, and urinary system (kidneys), behavior/central nervous system (convulsions, seizures, ataxia, excitement).

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Ingestion: May cause effects similar to those of acute ingestion.

Inhalation: Repeated exposure to low concentrations may cause bronchitis with cough, phlegm, and/or shortness of breath. May also cause liver and kidney

damage, and affect the brain, and blood.

Eye: May cause corneal damage and the development of cataracts and glaucoma. Skin: Repeated skin contact to low concentrations may cause dryness, itching, and

redness (dermatitis)

Sensitization: No information available

Mutagenic Effects: May affect genetic material

Mutations in microorganisms

Carcinogenic effects: Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Ammonium Hydroxide (CAS no. 1336-21-6) [Consists of 20-31% Ammonia (CAS no. 7664- 41-7) in 69-73% Water (CAS no. 7732-18-5)]	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects: No information available

Product code: A1195 Product name: AMMONIUM

Developmental Effects:No information available **Teratogenic Effects:**No information available

Specific Target Organ Toxicity

STOT - single exposure respiratory system. **STOT - repeated exposure**No information available

Target Organs: Skin. Eyes. Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Ammonium Hydroxide (CAS no. 1336-21-6)

[Consists of 20-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water (CAS no. 7732-18-5)] -

Freshwater Fish Species Data: 8.2 mg/L LC50 Pimephales promelas 96 h 1

Water Flea Data: 0.66 mg/L EC50 Daphnia pulex 48 h

0.66 mg/L EC50 water flea 48 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ammonium Hydroxide (CAS no. 1336-21-6) [Consists of 20-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water (CAS no. 7732-18-5)]	None	None		None

14. TRANSPORT INFORMATION

DOT

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8

Subsidiary Risk: Not applicable

Packing Group:

Marine Pollutant No data available

ERG No: 154

Product code: A1195 Product name: AMMONIUM
HYDROXIDE, REAGENT, ACS

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14. TRANSPORT INFORMATION

DOT RQ (lbs): No information available

Symbol(s): R3

TDG (Canada)

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Description: No information available

ADR

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8
Packing Group: III

Subsidiary Risk:
Classification Code:
Description:
No information available
No information available
No information available
No information available

IMO / IMDG

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Description:No information availableIMDG Page:No information availableMarine PollutantNo information available

EMS: F-A

MFAG: No information available Maximum Quantity: No information available

RID

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8
Subsidiary Risk: 8
Packing Group: III

Classification Code: No information available Description: No information available

ICAO

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Description: No information available

IATA

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8

Subsidiary Risk: No information available

Product code: A1195 Product name: AMMONIUM HYDROXIDE, REAGENT, ACS

14. TRANSPORT INFORMATION

Packing Group: III ERG Code: 8L

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Ammonium Hydroxide (CAS no. 1336-21-6) [Consists of 20-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water (CAS no. 7732-18-5)]	Present	Present KE- 01688	Present	Present (1)- 314	Present [27662]	Present	Present 215-647-6

U.S. Regulations

Ammonium Hydroxide (CAS no. 1336-21-6)

[Consists of 20-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water (CAS no. 7732-18-5)]

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: Present (sn 0103)

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

New Jersey TCPA - EHS: =19000lbTQ
Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present
New York Release Reporting - List of Hazardous Substances:

1000 lb RQ (air); 100 lb RQ (land/water)

Louisana Reportable Quantity List for Pollutants: Listed California Directors List of Hazardous Substances: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1139

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity		Female Reproductive Toxicity:
Ammonium Hydroxide (CAS no. 1336-21-6)	Not Listed	Not Listed	Not Listed	Not Listed
[Consists of 20-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water (CAS no. 7732-18-5)]				

CERCLA/SARA

Components	Substances and their	Hazardous	Section 302 Extremely Hazardous	Section 313 - Chemical Category	Section 313 - Reporting de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQS		
, , , , , , , , , , , , , , , , , , , ,		None	None	None	None
,	kg final RQ				
[Consists of 20-31%					
Ammonia (CAS no.					
7664-41-7) in 69-73%					
Water (CAS no. 7732-18-					
5)]					!

Product code: A1195 Product name: AMMONIUM 11 / 14

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Ammonium Hydroxide (CAS no. 1336-21-6) [Consists of 20-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water (CAS no. 7732-18-5)]		Not Applicable

Canada

WHMIS hazard class:

E Corrosive material

Ammonium Hydroxide (CAS no. 1336-21-6)

[Consists of 20-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water (CAS no. 7732-18-5)]

F

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Ammonium Hydroxide (CAS no.	1 %
1336-21-6)	
[Consists of 20-31% Ammonia (CAS	
no. 7664-41-7) in 69-73% Water	
(CAS no. 7732-18-5)]	

Inventory

Components	Canada (DSL)	Canada (NDSL)
Ammonium Hydroxide (CAS no.	Present	Not Listed
1336-21-6)		
Consists of 20-31% Ammonia (CAS		
no. 7664-41-7) in 69-73% Water		
(CAS no. 7732-18-5)]		

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
Ammonium Hydroxide (CAS no. 1336-21-6) [Consists of 20-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water (CAS no. 7732-18-5)]	Not listed	Not listed

EU Classification

R-phrase(s)

R34 - Causes burns.

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R50 - Very toxic to aquatic organisms.

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

Product name: AMMONIUM HYDROXIDE, REAGENT, ACS

S 1/2 - Keep locked up and out of the reach of children. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
1006 04 6)	N; R50	25%<=C: C,N; R34-50 10%<=C<25%: C; R34 5%<=C<10%: Xi; R36/37/38	S1/2 S26 S36/37/39 S45 S61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

C - Corrosive.





16. OTHER INFORMATION

Product code: A1195

16. OTHER INFORMATION		
NFPA	HMIS	Personal Protective Equipment



Health Hazard	3
Fire Hazard	0
Reactivity	0







Preparation Date:11/03/2014Revision Date:12/23/2014Prepared by:Sonia Owen

Disclaimer:

Product code: A1195

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet