



SAFETY DATA SHEET

Preparation Date: 11/03/2014 Revision Date: 9/20/2018 Revision Number: G5

1. IDENTIFICATION

Product identifier

Product code: A1195

Product Name: AMMONIUM HYDROXIDE, REAGENT, ACS

Other means of identification

Synonyms: L'hydroxyde d'ammonium(French)

Aqueous Ammonia Aqua ammonia

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

Hidróxido de amonio (Spanish)

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 Chemical Mfg. Corp

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 according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

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

Label elements

Danger

Hazard statements

Product code: A1195 Product name: AMMONIUM 1 / 14

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

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 person to fresh air and keep 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 %
Ammonium Hydroxide [Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]	1336-21-6	100

Product code: A1195 Product name: AMMONIUM 2 / 14
HYDROXIDE. REAGENT. ACS

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

> have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. 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 eyes 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.

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

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

is required. Call a physician or Poison Control Center 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

Treat symptomatically. Notes to Physician:

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

Hazardous Combustion Products: Ammonia. Nitrogen Oxides.

Product code: A1195 Product name: AMMONIUM 3/14

Specific hazards: No information available.

Special Protective Actions for Firefighters

Specific Methods: No information available.

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

6. ACCIDENTAL RELEASE MEASURES

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).

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

appropriate 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 segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents

Acids

Metals

Powdered metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Product code: A1195 Product name: AMMONIUM 4 / 14

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Ammonium Hydroxide	1336-21-6	None	None	None	None
[Consists of 27-31%					
Ammonia (CAS no.					
7664-41-7) in 69-73%					
Water]					

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Ammonium Hydroxide [Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]		None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Ammonium Hydroxide	1336-21-6	None	None
[Consists of 27-31% Ammonia (CAS no.			
7664-41-7) in 69-73% Water]			

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

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

Physical state: Appearance: Color:

Liquid No information available. Clear. Colorless.

Odor:TasteFormula:Strong. Ammonia.Acrid.NH4OH

Product code: A1195 Product name: AMMONIUM 5 / 14

Molecular/Formula weight (g/mole): Flammability:

35.05 No information available No information available.

Flashpoint (°C/°F):

Flash Point Tested according to:

Not available

Autoignition Temperature (°C/°F):

No information available

Lower Explosion Limit (%):

No information available

Upper Explosion Limit (%):

No information available

Melting point/range(°C/°F):

-69.2 °C/-92.6 °F

Decomposition temperature(°C/°F):

No information available

Boiling point/range(°C/°F):

31-38 °C/87.8-100.4 °F

Bulk density:

No information available

Density (q/cm3):

No information available

Specific gravity:

0.898

11.6 - this is the actual pH in a 1 N solution

Vapor pressure @ 20°C (kPa): 287.9 @ 25 °C

Evaporation rate: No information available Vapor density:

No information available

VOC content (g/L): No information available

Odor threshold (ppm): 5-50 (as ammonia)

Partition coefficient (n-octanol/water):

No information available

Viscosity:

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, 2-chloronitrobenzene, 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 (1) 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 under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

Oxidizing agents **Incompatible Materials:**

> Acids Metals

Powdered metals

Hazardous decomposition

products:

Ammonia gas may be liberated at high temperatures. Nitrogen oxides (NOx).

Product code: A1195 Product name: AMMONIUM 6/14

Other Information

Severe corrosive effect on Brass Corrosivity:

Severe corrosive effect on Bronze

Special Remarks on Corrosivity: 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

[Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]

1336-21-6 CAS-No.

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 information available

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

4230 ppm 1 hour LC50 inhalation Mouse (for Ammonia)

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 350 mg/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 = 6452-7407 ppm ppm (4-hr)

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Product code: A1195 Product name: AMMONIUM 7/14

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.

InhalationCauses 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 membranesIt 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 gastrointestinal 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	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Ammonium Hydroxide [Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]	1336-21-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Product code: A1195 Product name: AMMONIUM 8 / 14

Reproductive toxicity No data is available

Reproductive Effects:No information availableDevelopmental Effects:No information availableTeratogenic Effects:No information available

Specific Target Organ Toxicity

STOT - single exposureSTOT - repeated exposure
Respiratory system.
No information available.

Target Organs: Skin. Eyes. Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Ammonium Hydroxide

[Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water] -

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

Water Flea Data: 0.66 mg/L EC50 water flea 48 h 0.66 mg/L EC50 Daphnia pulex 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	CAS-No.	RCRA - F Series	RCRA - K Series	RCRA - P Series	RCRA - U Series
		Wastes	Wastes	Wastes	Wastes
Ammonium Hydroxide [Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]		None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8

Subsidiary Class No information available

Packing group: III Emergency Response Guide 154

Number

Marine Pollutant No data available

Product code: A1195 Product name: AMMONIUM 9 / 14

DOT RQ (lbs):No information available **Special Provisions**336, IB3, IP8, T7, TP2

Symbol(s): [DOT]: (R3) - Identifies a material that is a hazardous substance that has a

reportable quantity (RQ) of 100 pounds (45.4 Kilograms).

Description: UN2672, Ammonia solution, 8, III

TDG (Canada)

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN2672, Ammonia solution, 8, III

ADR

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8
Packing Group: |||

Subsidiary Risk: No information available

Special Provisions 543

Description: UN2672, Ammonia solution, 8, III, ENVIRONMENTALLY HAZARDOUS

IMO / IMDG

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class:

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A

Description UN2672, Ammonia solution (AMMONIUM HYDROXIDE CONSISTING OF

27-31% AMMONIA (CAS NO. 7664-41-7) IN 69-73% WATER (CAS NO.

7732-18-5)), 8, III, Marine pollutant

RID

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8
Subsidiary Risk: 8
Packing Group: III
Special Provisions 543

Description: UN2672, Ammonia solution, 8, III, ENVIRONMENTALLY HAZARDOUS

ICAO

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Description: UN2672, Ammonia solution, 8, III

Special Provisions A64

IATA

UN-No: UN2672

Proper Shipping Name: Ammonia solution

Hazard Class: 8

Subsidiary Risk: No information available

Product code: A1195 Product name: AMMONIUM 10 / 14

Packing Group: III ERG Code: 8L

Special Provisions No information available

Description: UN2672, Ammonia solution, 8, III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Ammonium Hydroxide [Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]		PresentACTIV E	Present KE-01688	Present	Present (1)-314	Present	Present	Present 215-647-6

U.S. Regulations

Ammonium Hydroxide

[Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 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 New York Release Reporting - List of Hazardous Substances:

1000 lb RQ 100 lb RQ

Louisana Reportable Quantity List for Pollutants: 1000lbfinal RQ

454kgfinal RQ

California Directors List of Hazardous Substances: Present

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

FDA - 21 CFR - Total Food Additives 163.110, 163.111, 163.112, 177.1600, 184.1139, 73.85

- List Sourced from EAFUS

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	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Ammonium Hydroxide [Consists of 27-31% Ammonia (CAS no.	1336-21-6	Not Listed	Not Listed	Not Listed	Not Listed
7664-41-7) in 69-73% Water]					

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Ammonium	1336-21-6	1000 lb final RQ	None	None	None	None
Hydroxide		454 kg final RQ				
[Consists of 27-31%						
Ammonia (CAS no.						
7664-41-7) in						
69-73% Water]						

Product code: A1195 Product name: AMMONIUM 11 / 14

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Ammonium Hydroxide	1336-21-6	Not Applicable	Not Applicable
[Consists of 27-31% Ammonia (CAS			
no. 7664-41-7) in 69-73% Water]			

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Ammonium Hydroxide [Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water] (100) WHMIS 2015 Hazard Classification
Health Hazard Not Otherwise Classified - Category 1: Causes
severe damage to the respiratory tract; Skin corrosion/irritation Category 1: H314 Causes severe skin burns and eye damage.;
Serious Eye Damage/Eye Irritation - Category 1: H318 Causes
serious eye damage.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Components	WHMIS Ingredient Disclosure List -
Ammonium Hydroxide	1 %
[Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]	

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Ammonium Hydroxide	1336-21-6	Present	Not Listed
[Consists of 27-31% Ammonia (CAS		
no. 7664-41-7) in 69-73% Water	1		

Components	CAS-No.	CEPA Schedule I - Toxic Substances	
Ammonium Hydroxide	1336-21-6	Not listed	
[Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]			
Components		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting	
Ammonium Hydroxide [Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]	1336-21-6	Not listed	

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Ammonium Hydroxide ICOnsists of 27-31% Ammonia (CAS no. 7664-41-7) in	1336-21-6	Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns
69-73% Water]		and eye damage.; Hazardous to
		aquatic environment - acute hazard -
		Aquatic Acute 1: H400 Very toxic to aquatic life.007-001-01-2
		Specific target organ toxicity - Single
		exposure - STOT SE 3: H335 May
		cause respiratory irritation. (C >= 5

Product code: A1195 Product name: AMMONIUM 12 / 14

%)007-001-01-2

EU - CLP (1272/2008)

R-phrase(s)

R34 - Causes burns.

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.

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	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Ammonium Hydroxide [Consists of 27-31% Ammonia (CAS no. 7664-41-7) in 69-73% Water]	1336-21-6	C; R34 N; R50	5%<=C<10% Xi; R36/37/38 10%<=C C; R34	S:(1/2)-26-36/37/39-45 -61

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

Indication of danger:

C - Corrosive.

N - Dangerous for the environment.





16. OTHER INFORMATION

Preparation Date: 11/03/2014
Revision Date: 9/20/2018
Prepared by: Sonia Owen

Disclaimer:

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.

Product code: A1195 Product name: AMMONIUM 13 / 14
HYDROXIDE. REAGENT. ACS

End of Safety Data Sheet

Product code: A1195

Product name: AMMONIUM HYDROXIDE, REAGENT, ACS