

SECTION 1: Identification

1.1. Product identifier

Product name : Ammonia

1.2. Recommended use and restrictions on use

Recommended use : General cleaning of household surfaces (tiles, glass, walls, porcelain etc); whitener for laundry; stain and tarnish remover for flatware and cutlery; oven cleaner; room deodorizer; wax remover for floors. Pesticide spray and boom cleaner.

1.3. Supplier

RW Consumer Products Ltd.
200 Omand's Creek Blvd
R2R 1V7 Winnipeg, Manitoba - Canada
T (204) 786-6873

1.4. Emergency telephone number

Emergency number : CANUTEC (613) 996-6666 (Transport only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Met. Corr. 1 H290
Skin Corr. 1B H314
Eye Dam. 1 H318
STOT SE 3 H335
HHNOC 1

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS CA) : Danger

Hazard statements (GHS-CA) : H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.
HHNOC: Causes severe damage to the respiratory tract

Precautionary statements (GHS-CA) : P234 - Keep only in original container.
P260 - Do not breathe dust, mist.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P390 - Absorb spillage to prevent material damage.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P363 - Wash contaminated clothing before reuse.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER, a doctor.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-CA)

Not applicable

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According to the Hazardous Products Regulation (February 11, 2015)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Ammonia 5%

Name	Product identifier	%
Water	(CAS-No.) 7732-18-5	95.00
Ammonium hydroxide	(CAS No) 1336-21-6	5.00

Ammonia 7%

Name	Product identifier	%
Water	(CAS-No.) 7732-18-5	93.00
Ammonium hydroxide	(CAS No) 1336-21-6	7.00

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after skin contact : IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- First-aid measures after ingestion : If swallowed: Do NOT induce vomiting. Rinse out mouth and give ½ to 1 glass of water to dilute stomach contents, followed by a demulcent such as milk or egg white or olive oil. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/injuries after inhalation : Causes severe damage to the respiratory tract. In most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema.
- Symptoms/injuries after skin contact : Causes severe skin burns. Symptoms may include redness, pain, blisters.
- Symptoms/injuries after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
- Symptoms/injuries after ingestion : May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause stomach distress, nausea or vomiting.

4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry chemical. Water spray.

5.2. Unsuitable extinguishing media

- Unsuitable extinguishing media : Do not use a heavy water stream.

5.3. Specific hazards arising from the hazardous product

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, oxides of nitrogen, gaseous ammonia.
- Explosion hazard : Ammonia can form explosive mixtures in air.

5.4. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray or fog for cooling exposed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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According to the Hazardous Products Regulation (February 11, 2015)

6.2. Methods and materials for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for cleaning up : Absorb spillage to prevent material damage. Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe dust, mist. Do not swallow. Do not eat, drink or smoke when using this product. Handle and open container with care. Provide good ventilation in process area to prevent formation of vapour. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep containers upright. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.
- Additional hazards when processed : May be corrosive to metals.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Keep only in the original container in a cool, well ventilated place away from: Incompatible materials. Keep container tightly closed. Unstable at high temperatures, and extended exposure to light. Store locked up.
- Incompatible materials : Strong oxidizers. Sources of ignition. Bleach. Most metals including gold, silver, copper, mercury.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. Provide readily accessible eye wash stations and safety showers.
- Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear chemically resistant protective gloves.

Eye protection:

Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear
- Colour : Colourless
- Odour : Pungent, Irritating
- Odour threshold : 2-50 ppm
- pH : 11.43
- pH solution : No data available
- Relative evaporation rate (butylacetate=1) : No data available

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According to the Hazardous Products Regulation (February 11, 2015)

Relative evaporation rate (ether=1)	: No data available
Melting point	: -5 - -6 °C
Freezing point	: -5 - -6 °C
Boiling point	: 88 °C
Flash point	: No data available
Auto-ignition temperature	: 651 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: 3.75 psi @ 25°C
Vapour pressure at 50 °C	: 475 mm Hg at 15.5°C (Ammonia)
Relative vapour density at 20 °C	: 0.6 (Ammonia)
Relative density	: 0.989 - 0.991
Relative density of saturated gas/air mixture	: No data available
Density	: SG: 0.989 – 0.991
Relative gas density	: No data available
Solubility	: Water: 100 %, Soluble in ethanol and methanol.
Partition coefficient n-octanol/water	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 16 vol % (Ammonia) 25 vol % (Ammonia)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal storage conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Direct sunlight. Heat. Incompatible materials.
Incompatible materials	: Strong acids. Strong bases. Oxidizers. Halogens. Chlorites. May be corrosive to metals. Gold. Silver. Mercury. Zinc. Copper. Tin. Aluminium. Brass.
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon, oxides of nitrogen, gaseous ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

Water (7732-18-5)

LD50 oral rat	> 90 ml/kg
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Ammonium hydroxide (1336-21-6)

LD50 oral rat	350 mg/kg
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Skin corrosion/irritation	: Causes severe skin burns. pH: 11.43
Serious eye damage/irritation	: Causes serious eye damage. pH: 11.43
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: May cause respiratory irritation.

Ammonium hydroxide (1336-21-6)

STOT-single exposure	May cause respiratory irritation.
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According to the Hazardous Products Regulation (February 11, 2015)

STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Symptoms/injuries after inhalation	: Causes severe damage to the respiratory tract. In most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema.
Symptoms/injuries after skin contact	: Causes severe skin burns. Symptoms may include redness, pain, blisters.
Symptoms/injuries after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause stomach distress, nausea or vomiting.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Ammonium hydroxide (1336-21-6)	
LC50 fish 1	8.2 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i>)
EC50 Daphnia 1	0.66 mg/l (Exposure time: 48 h - Species: water flea)
EC50 Daphnia 2	0.66 mg/l (Exposure time: 48 h - Species: <i>Daphnia pulex</i>)

12.2. Persistence and degradability

Ammonia	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Ammonia	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Do not allow into waterways as the fertilizing properties of ammonium hydroxide can cause eutrophication (algae blooms). Place spill in appropriate containers for reclaim or neutralization. Before disposing of household ammonia, contact the appropriate regulatory Federal or provincial authorities.

Additional information : Empty containers may contain residues which are hazardous.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

No additional information available

14.3. Air and sea transport

No additional information available

SECTION 15: Regulatory information

15.1. National regulations

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

SECTION 16: Other information

Issue date : 10-18-2016

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According to the Hazardous Products Regulation (February 11, 2015)

Revision date : 09-30-2020

Supersedes : 05-08-2019

Indication of changes:

GHS classification. SDS update.

Other information : None.

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