SECTION 1: IDENTIFICATION

1.1. Product Identifier
Product Name: Aqua Ammonia 29%
CAS No: 1336-21-6
Synonyms: Ammonia water, Aqueous ammonia, Household ammonia, Ammonium hydrate
STCC: 4935280

1.2. Intended Use of the Product
Fertilizer

1.3. Name, Address, and Telephone of the Responsible Party
Company
CF Industries Sales, LLC
4 Parkway North, Suite 400
Deerfield, Illinois 60015-2590
847-405-2400
www.cfindustries.com

1.4. Emergency Telephone Number
Emergency Number: 800-424-9300
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
Classification (GHS-US)
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation: gas) H332
Skin Corr. 1A H314
Eye Dam. 1 H318
STOT SE 3 H335
Aquatic Acute 1 H400
Aquatic Chronic 3 H412

2.2. Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US):

Signal Word (GHS-US): Danger
Hazard Statements (GHS-US):
H302+H332 - Harmful if swallowed or if inhaled.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.
H400 - Very toxic to aquatic life.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements (GHS-US):
P260 - Do not breathe mist, spray, vapors, gas.
P261 - Avoid breathing vapors, mist, or spray.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves, face protection.
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P301+P330+P331+P310 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Immediately call a poison center or doctor.
P303+P361+P353+P310 - IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor.
P304+P340+P310 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor.
P305+P351+P338+P310 - 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.
P363 - Wash contaminated clothing before reuse.
P391 - Collect spillage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, provincial, territorial, national, and international regulations.

2.3. Other Hazards
Ammonium hydroxide is very volatile and may release ammonia as a gas. Ammonia vapor, in concentrations of 16-25% volume by weight in air, is flammable, toxic by inhalation and corrosive. Take all appropriate precautions.

2.4. Unknown Acute Toxicity (GHS-US)
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
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<tr>
<td>Ammonium hydroxide</td>
<td>(CAS No) 1336-21-6</td>
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<td>Acute Tox. 4 (Oral), H302</td>
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<td></td>
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<td>Skin Corr. 1B, H314</td>
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<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
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<td></td>
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<td></td>
<td>Aquatic Acute 1, H400</td>
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<tr>
<td>Contains</td>
<td>Product Identifier</td>
<td>% (w/w)</td>
<td>Classification (GHS-US)</td>
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<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>69.6 - 70.6</td>
<td>Not classified</td>
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<tr>
<td>Ammonia</td>
<td>(CAS No) 7664-41-7</td>
<td>29.4 - 30.4</td>
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<td>Compressed gas, H280</td>
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<td>Acute Tox. 3 (Inhalation:gas), H331</td>
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<td>Skin Corr. 1B, H314</td>
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<td>Eye Dam. 1, H318</td>
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<td>Aquatic Acute 1, H400</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. Seek medical attention immediately. Show label if possible.

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Immediately flush skin with plenty of water for at least 60 minutes. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Harmful if swallowed. Corrosive to eyes, respiratory system and skin. Harmful if inhaled.
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**Inhalation:** Symptoms may include: Sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Damage to lungs. Harmful if inhaled.

**Skin Contact:** Corrosive. Causes burns. Symptoms may include: Redness. Pain. Serious skin burns. Blisters.

**Eye Contact:** Causes serious eye damage. Symptoms may include: Redness. Pain. Blurred vision. Severe burns. Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None known.

**4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing Media**

Suitable Extinguishing Media: Water spray, fog.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**5.2. Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Ammonia vapor concentrations in the range of 16-25% by volume in air can be ignited if heated to the auto-ignition temperature. Oil or other combustible materials increases the fire hazard. Emits toxic fumes under fire conditions.

**Explosion Hazard:** Forms explosive compounds with calcium hypochlorite, bleaches, gold, mercury, silver, chlorine and other halogens.

**Reactivity:** Corrosive to copper and aluminum, including their alloys, and galvanized surfaces.

**5.3. Advice for Firefighters**

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Stop leak if safe to do so. Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Firefighters must use full bunker gear including NIOSH-approved positive-pressure self-contained breathing apparatus to protect against potential hazardous combustion and decomposition products.

**Hazardous Combustion Products:** Nitrogen oxides. Ammonia.

**Reference to Other Sections**

Refer to section 9 for flammability properties.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Keep away from open flames, hot surfaces and sources of ignition. No smoking. Avoid all contact with skin, eyes, or clothing. Do not breathe vapor, mist or spray.

**6.1.1. For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Eliminate ignition sources.

**6.1.2. For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.

**6.2. Environmental Precautions**

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

**6.3. Methods and Material for Containment and Cleaning Up**

**For Containment:** Stop the flow of material, if this is without risk. Ventilate area. Contain any spills with dikes or absorbents.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Never neutralize spill with acid. Absorb and/or contain spill with inert material, then place in suitable container. Use only non-sparking tools. After cleaning, flush traces away with water.

**6.4. Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.
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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling
Additional Hazards When Processed: Do NOT enter (storage areas, confined spaces) unless adequately ventilated. Emits ammonia vapors. Ammonium hydroxide reacts with many heavy metals and their salts forming explosive compounds. It attacks many metals forming flammable/explosive gas. The solution in water is a strong base, it reacts violently with acids.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Ensure adequate ventilation. Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Detached outside storage is preferable. Keep in fireproof place. Store away from oxidizers, combustible materials, and all ignition sources. Store in corrosive resistant container with a resistant inner liner. Storage containers should have safety relief valves. Store locked up.


Storage Area: Post readily visible warning signs in the storage area listing emergency measures. Water hoses should be readily available to disperse vapors in case of a spill.

7.3. Specific End Use(s)
Fertilizer

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters
For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

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<thead>
<tr>
<th>Substance</th>
<th>Control Parameter</th>
<th>Value</th>
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<tr>
<td>Mexico</td>
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<td>Mexico</td>
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<tr>
<td>Mexico</td>
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</tr>
<tr>
<td>USA ACGIH</td>
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<tr>
<td>Newfoundland &amp; Labrador</td>
<td>OEL STEL (ppm)</td>
<td>35 ppm</td>
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<th>Province</th>
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<td>Québec</td>
<td>VECD (mg/m³)</td>
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<td>Yukon</td>
<td>OEL TWA (ppm)</td>
<td>25 ppm</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Gas detectors should be used when toxic gases may be released. Use explosion-proof equipment.


Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State: Liquid
Appearance: Colorless
Odor: Pungent
Odor Threshold: 1 - 50 ppm
pH: 10.6 - 11.6 (0.02-1.7% aqueous ammonia solution)
Evaporation Rate: Not available
Melting Point: -77 °C (-106 °F) (<44% NH₃)
Freezing Point: -78 °C (-108 °F)
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Boiling Point: 37.4 °C (99.3°F) (25% NH₃)
Flash Point: Not available
Auto-ignition Temperature: 651 °C (1,204°F) (ammonia vapor)
Decomposition Temperature: Not available
Flammability (solid, gas): Not available
Lower Flammable Limit: 16 % (ammonia vapor)
Upper Flammable Limit: 25 % (ammonia vapor)
Vapor Pressure: 49642.2 Pa at 68°F (20°C)
Relative Vapor Density at 20 °C: 0.6 (for ammonia vapor over aqua ammonia at 0°C and 760 mm Hg)
Relative Density: Not available
Specific Gravity: 0.90 at 60 °F (19% NH₃)
Solubility: Soluble in water.
Partition Coefficient: N-Octanol/Water: -1.14 at 25°C
Viscosity: Not available

Explosion Data – Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge: Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Corrosive to copper and aluminum, including their alloys, and galvanized surfaces.
10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product
Acute Toxicity: Oral: Harmful if swallowed. Inhalation: gas: Harmful if inhaled.
LD₅₀ and LC₅₀ Data:

<table>
<thead>
<tr>
<th>Aqua Ammonia 29% ( \ f )1336-21-6</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ATE US (oral)</td>
<td>350.00 mg/kg body weight</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>10,256.41 ppmV/4h</td>
</tr>
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</table>

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.
pH: 10.6 - 11.6 (0.02-1.7% aqueous ammonia solution)

Serious Eye Damage/Irritation: Causes serious eye damage.
pH: 10.6 - 11.6 (0.02-1.7% aqueous ammonia solution)

Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not available
Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.
Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Symptoms may include: Sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Damage to lungs. Harmful if inhaled.
Symptoms/Injuries After Eye Contact: Causes serious eye damage. Symptoms may include: Redness. Pain. Blurred vision. Severe burns. Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion: Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
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Chronic Symptoms: None known.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
<th>LC50 Inhalation Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia (7664-41-7)</td>
<td>&gt; 90000 mg/kg</td>
<td>5.1 mg/l (1 h)</td>
</tr>
<tr>
<td>LC50 Inhalation Rat</td>
<td>2000 ppm/4h</td>
<td>(Exposure time: 4 h)</td>
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<tr>
<td>Water (7732-18-5)</td>
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</tr>
<tr>
<td>LD50 Oral Rat</td>
<td>350 mg/kg</td>
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</tr>
<tr>
<td>Ammonium hydroxide (1336-21-6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 Oral Rat</td>
<td></td>
<td>0.26 - 4.6 mg/l (96 h)</td>
</tr>
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</table>

**SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

Ecology - General: Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LC50 Fish 1</th>
<th>EC50 Daphnia 1</th>
<th>LC 50 Fish 2</th>
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<tbody>
<tr>
<td>Ammonia (7664-41-7)</td>
<td>0.44 mg/l</td>
<td>25.4 mg/l</td>
<td>0.26 - 4.6 mg/l</td>
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<tr>
<td>LC50 Fish 2</td>
<td>8.2 mg/l</td>
<td>0.66 mg/l</td>
<td>0.66 mg/l</td>
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<tr>
<td>Ammonium hydroxide (1336-21-6)</td>
<td>0.26 mg/l</td>
<td>0.66 mg/l</td>
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</table>

12.2. Persistence and Degradability

Aqua Ammonia 29% (1336-21-6)

Persistence and Degradability: Biodegradation of ammonia occurs in water under aerobic conditions.

12.3. Bioaccumulative Potential

Aqua Ammonia 29% (1336-21-6)

Log Pow: -1.14

Bioaccumulative Potential: Not established.

12.4. Mobility in Soil

Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Prevent runoff from entering drains, sewers or waterways.

Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**SECTION 14: TRANSPORT INFORMATION**

14.1. In Accordance with DOT

Proper Shipping Name: AMMONIA SOLUTIONS(with more than 10% but not more than 35% ammonia)

Hazard Class: 8

Identification Number: UN2672

Label Codes: 8

Packing Group: III

ERG Number: 154
Aqua Ammonia 29%

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14.2. In Accordance with IMDG
Proper Shipping Name : AMMONIA SOLUTION (with more than 10% but not more than 35% ammonia)
Hazard Class : 8
Identification Number : UN2672
Packing Group : III
Label Codes : 8
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B

14.3. In Accordance with IATA
Proper Shipping Name : AMMONIA SOLUTION (with more than 10% but not more than 35% ammonia)
Hazard Class : 8
Identification Number : UN2672
Label Codes : 8
Packing Group : III
ERG Code (IATA) : 8L

14.4. In Accordance with TDG
Proper Shipping Name : AMMONIA SOLUTION (with more than 10% but not more than 35% ammonia)
Hazard Class : 8
Identification Number : UN2672
Label Codes : 8
Packing Group : III

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Aqua Ammonia 29% (1336-21-6)
SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard
Ammonia (7664-41-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the United States SARA Section 302
Listed on United States SARA Section 313
SARA Section 302 Threshold Planning Quantity (TPQ) | 500
SARA Section 311/312 Hazard Classes | Fire hazard
Immediate (acute) health hazard
Sudden release of pressure hazard
SARA Section 313 - Emission Reporting | 1.0 % (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing)

Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Ammonium hydroxide (1336-21-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State Regulations

Ammonia (7664-41-7)
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Connecticut - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S. - Connecticut - Water Quality Standards - Acute Saltwater Aquatic Life Criteria
Aqua Ammonia 29%

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U.S. - Texas - Effects Screening Levels - Long Term
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U.S. - Vermont - Permissible Exposure Limits - STELs
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U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
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U.S. - Wyoming - Process Safety Management - Highly Hazardous Chemicals
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U.S. - Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Marine Water
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U.S. - Alaska - Ambient Air Quality Standards

Ammonium hydroxide (1336-21-6)

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RTK - U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Polluting Materials List
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
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U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

15.3. Canadian Regulations

Aqua Ammonia 29% (1336-21-6)

WHMIS Classification

Class E - Corrosive Material
Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects
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**Ammonia (7664-41-7)**
- Listed on the Canadian DSL (Domestic Substances List)
- Listed on the Canadian IDL (Ingredient Disclosure List)

**IDL Concentration 1 %**

**WHMIS Classification**
- Class A - Compressed Gas
- Class B Division 1 - Flammable Gas
- Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects
- Class E - Corrosive Material

**Water (7732-18-5)**
- Listed on the Canadian DSL (Domestic Substances List)

**WHMIS Classification**
- Uncontrolled product according to WHMIS classification criteria

**Ammonium hydroxide (1336-21-6)**
- Listed on the Canadian DSL (Domestic Substances List)
- Listed on the Canadian IDL (Ingredient Disclosure List)

**IDL Concentration 1 %**

**WHMIS Classification**
- Class E - Corrosive Material
- Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

**Revision Date** : 1 September 2015
**Revision Comments** : Section 1.1 updated
Section 14.1, 14.3, 14.4 updated

**GHS Full Text Phrases:**

- Acute Tox. 3 (Inhalation:gas) Acute toxicity (inhalation:gas) Category 3
- Acute Tox. 4 (Inhalation:gas) Acute toxicity (inhalation:gas) Category 4
- Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4
- Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1
- Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2
- Aquatic Chronic 3 Hazardous to the aquatic environment - Chronic Hazard Category 3
- Compressed gas Gases under pressure Compressed gas
- Eye Dam. 1 Serious eye damage/eye irritation Category 1
- Flam. Gas. 2 Flammable gases Category 2
- Skin Corr. 1A Skin corrosion/irritation Category 1A
- Skin Corr. 1B Skin corrosion/irritation Category 1B
- STOT SE 3 Specific target organ toxicity (single exposure) Category 3
- H221 Flammable gas
- H280 Contains gas under pressure; may explode if heated
- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H331 Toxic if inhaled
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H400 Very toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects
- H412 Harmful to aquatic life with long lasting effects
## Aqua Ammonia 29%

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| NFPA Health Hazard | : | 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. |
|---------------------|:|---------------------------------------------------------------|
| Fire Hazard | : | 1 - Must be preheated before ignition can occur. |
| Reactivity | : | 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. |

### HMIS III Rating

| Health | : | 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given |
| Flammability | : | 1 Slight Hazard |
| Physical | : | 0 Minimal Hazard |

**Party Responsible for the Preparation of This Document**

CF Industries, Corporate EHS Department, 847-405-2400

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

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