AN-2134

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: **AN-2134**
SDS Number: 250805-05
Product Description: Water Treatment Chemical
Revision Date: 08/05/2025
Product Use: Water Treatment
Company: Apex Water + Process
12270 43rd Street NE
St. Michael MN 55376
Website: www.TeamApex.com
Contact: Non-Emergency 1-844-603-4077
Emergency Response: **For Hazardous Materials Incident, Spill, Leak, Fire, Exposure, or Accident Call: CHEMTREC at (800) 424-9300 CCN 1018609**

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification:
1-4 (1 most severe)
Serious Eye Damage, Category 1
Skin Corrosion, Category 1
Acute Aquatic Toxicity, Category 1
STOT – Single, Category 3
Simple Asphyxiants
Acute Toxicity, Oral, Category 4

Signal Word(s): **DANGER**
Pictograms:

Hazard Statements:
Causes serious eye damage.
Causes severe skin burn.
Very toxic to aquatic life.
May cause respiratory irritation.
Harmful if swallowed.
May displace oxygen and cause rapid suffocation.

Precautionary Statements

Prevention: Read SDS and label before use. Always wear appropriate PPE. Wash affected body parts thoroughly after handling. Do not eat, drink, or smoke when using this product. Keep out of reach of children. Do not breathe mist/spray. Avoid release to the environment.

Response: IF SWALLOWED: Rinse mouth. Do not induce vomiting. Immediately seek medical advice. IF ON SKIN: Immediately remove all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. IF INHALED: Remove victim to fresh air and keep comfortable for breathing.

Storage: See Section 7.

Disposal: Dispose of contents and container in accordance with federal, state, and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	CHEMICAL NAME	% WT. or % Vol.
7664-41-7	Ammonia	15 – 20
141-43-5	2-aminoethanol	5 – 15

Confidential business information has been removed without affecting the overall safety information on the safety data sheet.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Remove any contact lenses. Seek medical attention, if you feel unwell.

Skin Contact: Remove contaminated clothing and wash exposed area thoroughly with soap and water. Seek medical attention, if you feel unwell.

Ingestion: If swallowed, DO NOT induce vomiting. Rinse mouth. Seek medical attention, if you feel unwell.

Inhalation: Move to fresh air immediately. If breathing is difficult, give oxygen. Seek medical attention, if you feel unwell.

Note to Physician: Treat symptomatically and supportively.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Agents: Use extinguishing media appropriate for surrounding fire (Not CO2).

Specific Hazards During Firefighting: At elevated temperatures, aqua ammonia will emit ammonia gas and possibly small amounts of nitrogen oxides, which have been classified as toxic. Presence of oil or other combustible materials increases the fire hazard of ammonia gas. Ammonia concentrations in the range of 16-25 % by volume in air can be ignited or caused to explode if heated to the auto-ignition temperature.

Specific Extinguishing Methods: Wear full protective clothing and a self-contained breathing apparatus (SCBA) because toxic fumes are emitted. Stop flow if possible. Use water to keep fire exposed containers cool and to protect persons shutting off flow of liquid. For a serious leak, use fire hose with a fog nozzle and plenty of water to absorb ammonia vapors.

Specific PPE for Firefighters: In the event of fire, wear a self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Response: Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems. Ventilate spill or leak area to disperse gas. Eliminate all sources of ignition. Stop flow if possible. If small spill, either allow it to vaporize or absorb the vapor in water. If large spill, spray the vapor cloud with water to reduce fire and fume hazard. Neutralization with acid not recommended. Flush area with water.

Spill Notification: Determine if federal, state, and/or local release notification is required.

SECTION 7: HANDLING AND STORAGE

Advice on Safe Handling: Handle all chemicals with respect. Keep separated from incompatible substances. Handle only with equipment, materials, and supplies specified by their manufacturer as being compatible and appropriate for use with this product.

Conditions for Safe Storage: Storage in specially designated areas outside or in detached structure is preferred. Store inside only in a cool, well-ventilated area free from combustibles and away from all sources of ignition. Protect containers from corrosion and mechanical damage. Containers should have safety relief valves. Keep separate from other chemicals, particularly oxidizing gases, organic materials, chlorine, bromine, iodine, mercury, and acids. Post visible warning signs in the storage area listing emergency measures. Water hoses should be readily available to knock down vapors from spill.

Materials to Avoid: Do not freeze. Incompatible materials. Keep away from food and drink, tobacco products, heat, sparks, or flames.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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), AIHA (WEEL), NIOSH (REL) or OSHA (PEL).

COMPONENT	TYPE	VALUE/NOTATION
Ammonia	TWA	25 ppm

Engineering Controls: Provide local exhaust ventilation as needed to control misting. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment:

Body Protection:	The use of gloves, boots, and aprons impermeable to the specific material handled (for Ammonia, includes Butyl, Teflon, Neoprene, and Viton) is advised to prevent skin contact, possible irritation, and skin damage. Where splash is possible, full chemically resistant protective clothing and boots are required. Ensure that eyewash stations and safety showers are proximal to the work location.
Eye Protection:	Wear chemical goggles and face shield unless protected by a respirator with a full- face piece. Do not wear contact lenses as they may trap fumes against the eyes and can make flushing ineffective.
Respiratory Protection:	None required under normal conditions. When conditions warrant a respirator, use NIOSH-approved respirator and cartridge for particulates and ammonia.
Environmental Exposure Controls:	Do not allow the product to be released into the environment.
Consumer Exposure Controls:	Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Odor:	Ammonia-like
Odor Threshold:	No data available
pH:	>12
Melting Point/Freezing Point:	No data available
Boiling Point/Range:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability (solid, gas):	N/A
Upper/Lower Explosion Limit:	N/A
Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	0.92 – 0.96 g/mL
Water Solubility:	100%
Partition Coefficient: n-octanol/water:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Product is stable under normal storage and use conditions.
Possibility of Hazardous Reactions:	Stable under recommended storage conditions.
Conditions to Avoid:	Heat, sunlight, incompatibles, sources of ignition.
Incompatible Materials:	Corrosive to copper, brass, silver, zinc, aluminum alloys, and galvanized steel. Immediately boils when mixed with acids and is dangerous. Forms explosive compounds with calcium hypochlorite, bleaches, gold, mercury, silver, chlorine, and other halogens.
Hazardous Decomposition Products:	Nitrogen oxides, carbon oxides, nitrous gasses, ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: *Product not tested as a whole. Acute toxicity estimated based on ingredients (additivity formula).*
Acute Toxicity – Oral, ATE = 1839 mg/kg

Skin: No data available
Eye: No data available
Respiratory: No data available
Ingestion: No data available

Delayed: No data available
Chronic: No data available

Germ Cell Mutagenicity: No data available
Carcinogenicity: No components list as a carcinogen.
Reproductive Toxicity: No data available

STOT (Single): No data available
STOT (Repeated): No data available
Aspiration Hazard: No data available

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: No data available

Persistency & Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal Considerations: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN 1760
Description of the Goods: Corrosive liquid, n.o.s. (Ammonia, 2-aminoethanol)
Class: 8
Packing Group: II
Environmental Hazards: No data available

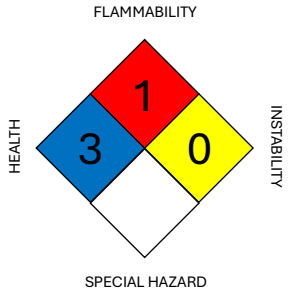
DOT Transportation data (49 CFR 172.101)

SECTION 15: REGULATORY INFORMATION

TSCA Inventory Status:	All ingredients are listed as active on the TSCA inventory
DSCL (EEC):	All ingredients are listed as active on the DSCL inventory
California Proposition 65:	Not Listed
SARA 302:	500 lbs as ammonia NH3
SARA 304:	100 lbs as ammonia NH3
SARA 311/312:	Acute Health Hazard
CERCLA:	Listed: Ammonia RQ-1,000 lbs Listed: 2-aminoethanol RQ – 1,000 lbs

SECTION 16: OTHER INFORMATION

NFPA :



HMIS III:

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe
* = Chronic

HEALTH	**3**
FLAMMABILITY	**1**
PHYSICAL HAZARD	**0**

Disclaimer:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.