



Safety Data Sheet

AA-150

1. IDENTIFICATION

Product name	AA-150
Description	Ammonium hydroxide solution
Product class	Condensate treatment
Supplier address	511 Railroad Avenue Homer City, PA 15748
Telephone numbers	(724) 915-8388
<u>Company Phone Number</u>	
<u>Emergency Telephone</u>	CHEMTREC (800)-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification	Skin Corrosion, Category 1 Serious Eye Damage, Category 1 Acute Toxicity: Inhalation, Category 3 Aquatic Environment Toxicity: Acute, Category 1
Signal word	Danger
Hazard statements	Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. Very toxic to aquatic life.

Pictograms of related hazards



Precautionary statements

Prevention

- Wash skin thoroughly after handling.
- Wear protective gloves, protective clothing, eye protection, and face protection.
- Avoid breathing fumes, mist, vapors, or spray.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.

Response

- Wash contaminated clothing before reuse.
- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately contact a POISON CENTER or health care provider.
- IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or emergency shower.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately contact a POISON CENTER or health care provider.

Storage

Store locked up.

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

Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %
Ammonia	7664-41-7	17.8–19.7

4. FIRST-AID MEASURES

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally to ensure complete rinsing. Remove contact lenses if present and easy to do, then resume rinsing. Get medical attention immediately.
Skin contact	Immediately remove all contaminated clothing. Rinse with copious amounts of water; use an emergency shower if available. Wash contaminated clothing before reuse.
Ingestion	If swallowed, DO NOT induce vomiting. Rinse mouth and get emergency medical attention. Do not give anything by mouth unless instructed to do so by a poison center or health care provider.
Inhalation	If inhaled, move victim to fresh air. Seek emergency medical attention if breathing is difficult; perform artificial respiration if breathing stops.
Note to health care provider	Esophageal corrosion may contraindicate the use of gastric lavage and/or activated charcoal.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media appropriate for the surrounding fire.
Unsuitable extinguishing media	No information available
Protective equipment and precautions for firefighters	Stay upwind of the fire. Full protective equipment including self-contained breathing apparatus should be used. Use water to cool closed containers. Contain water runoff if possible.
Specific hazards	Reaction with metals may evolve highly flammable hydrogen gas. Combustion may produce toxic gases.
Hazardous combustion products	Nitrogen gas, hydrogen gas, corrosive vapor

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate the area of all non-essential personnel. Do not touch spilled material without proper protective equipment. Ventilate the area and mitigate further release if it is safe to do so. Avoid contact with eyes.
Methods for clean-up	
<u>Small spills</u>	Contain spill and soak up with an inert absorbent material and place residues in a properly labeled container for disposal. Avoid discharge into sewer or surface water.
<u>Large spills</u>	Contain spill using trenches, diking, or absorption with an inert material (i.e. sand or earth). Reclaim spilled material into recovery or salvage drums or tank truck for proper disposal.

7. HANDLING AND STORAGE

Advice on safe handling	Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Wash hands thoroughly after handling.
Storage conditions	Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.
Suitable materials of construction	Corrosion-resistant container; original container only is recommended.
Unsuitable materials of construction	Metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection	Chemical splash goggles, face shield
Skin protection	Chemical-resistant gloves and body-covering clothing
Respiratory protection	Observe published airborne exposure limits. NIOSH approved respirator should be used in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).
Engineering controls	Adequate ventilation, eye-wash station, and emergency shower
General hygiene considerations	Do not eat, drink, or smoke while handling this product.

Chemical Name	OSHA PEL	ACGIH TLV
Ammonia	TWA: 35 mg/m ³	TWA: 25 ppm; STEL: 35 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

pH	>12.0
Appearance	Clear colorless liquid
Odor	Pungent
Odor Threshold	No information available
Melting/freezing point	-32°F (-35.6°C)

Initial boiling point/boiling range	124°F @ 14.7 psi
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	25/16%
Vapor pressure	3.9 psi @ 60°F
Vapor density	No information available
VOC content	No information available
Specific gravity	0.927-0.933
Solubility	No information available
Partition coefficient n-octanol/water	No information available
Auto-ignition temperature	1,204°F (651°C) [catalyzed]; 1,570°F (854°C) [uncatalyzed]
Decomposition temperature	No information available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of storage and handling.
Hazardous polymerization	Polymerization will not occur.
Conditions to avoid	Extreme temperatures, incompatibilities
Incompatibilities	Hypochlorites, bleaches, halogens, metals, oxidizers
Hazardous decomposition products	Reaction with hypochlorites may yield highly toxic chloramine gas.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure Skin, eyes, ingestion

Acute toxicity

Ammonia

Parameter	Result
LD ₅₀ , Oral (rat)	350 mg/kg
LD _{Lo} , Oral (human)	43 mg/kg
LC _{Lo} , Inhalation (human)	5,000 ppm
TC _{Lo} , Inhalation (human)	408 ppm
LC ₅₀ , Inhalation (rat)	2,000 ppm/4hr
Usual Fatal Dose (Human)	15-20 ml

Acute symptoms and effects

Eye

Severe eye irritation with serious damage including, but not limited to, tissue destruction, corneal opacification, and temporary or permanent blindness.

Skin	Skin irritation with or without pain, burning, itching, redness, and swelling. Symptoms may be exacerbated by open wounds, excoriations, rashes, or other skin breaches.
Ingestion	Gastrointestinal distress with or without nausea, vomiting, and diarrhea. May cause irritation or corrosion of the oral and esophageal mucosa.
Inhalation	Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip. Aspiration of liquid or vomit may cause severe respiratory distress, airway corrosion, and acute lung damage.
Reproductive effects	No information available
Teratogenicity	No information available
Mutagenicity	No information available
Embryotoxicity	No information available
Sensitization to product	No information available
Synergistic products	No information available
Carcinogenicity	No components have been identified as carcinogenic by OSHA, NTP, or IARC.
Chronic	No information available

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Ammonia

Parameter	Result
96 hr LC ₅₀ , Bluegill sunfish	1.17 mg/L
96 hr LC ₅₀ , Fathead minnow	0.75 mg/L
96 hr LC ₅₀ , Rainbow trout	126 mg/L
96 hr LC ₅₀ , Sheepshead Minnow	121.2 mg/L
48 hr EC ₅₀ , Daphnia magna	131 mg/L

Persistence	No information available
Bioaccumulative potential	No information available
Mobility	No information available

13. DISPOSAL CONSIDERATIONS

Disposal	Dispose of in accordance with federal, state, and local regulations. Do not discharge into sewer or surface water.
RCRA status	As sold, discarded product would be considered a RCRA hazardous waste based on the corrosive characteristics. The EPA hazardous waste number is D002.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT) DOT-SP 11836

UN Number UN2672

Proper shipping name Ammonia solutions

Primary hazard class/division 8

Secondary hazard None

Packing group III

Label Corrosive

15. REGULATORY INFORMATION

OSHA Hazard Communication Status Skin Corrosion, Category 1
 Serious Eye Damage, Category 1
 Acute Toxicity: Inhalation, Category 3
 Aquatic Environment Toxicity: Acute, Category 1

EPA Registration Number Not applicable

TSCA The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA

EPA Hazardous Substances (40 CFR 302)

Chemical Name	Reportable Quantity (RQ)
Ammonia	100 lb
Product (Notify the EPA of spills exceeding this amount.)	500 lb

SARA Title III (Sections 302, 311, 312, and 313)

Section 302 Extremely Hazardous Substances (40 CFR 355)

Chemical Name	CAS#	RQ	TPQ
Ammonia	7664-41-7	100 lb	500 lb

Section 311 and 312 Health and Physical Hazards

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	No	No	No	No

Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
Ammonia	7664-41-7	17.8–19.7

16. OTHER INFORMATION

HMIS Ratings	Health—3; Flammability—1; Reactivity—0
NFPA Ratings	Health—3; Flammability—1; Reactivity—0
HMIS/NFPA Rating Scale	Minimal—0; Slight—1; Moderate—2; Serious—3; Severe—4
SDS Issue Date	01/30/20245
Version	1

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