

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.  
THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)  
IMPORTANT: Read this MSDS before handling & disposing of this product.  
Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: CLEAR AMMONIA  
COMPANY IDENTITY: SUMMIT INDUSTRIES & SOLUTIONS LLC  
COMPANY ADDRESS: 1610 N. 170 E. AVE.  
COMPANY CITY: TULSA, OK 74116  
COMPANY PHONE: 1-918-439-4329  
INFOTRAC PHONE: 1-800-535-5053

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 85-95% WATER (7732-18-5),  
0-10% AQUA AMMONIA (1336-21-6)

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R34 Causes burns.  
R37 Irritating to the respiratory system.

SAFETY STATEMENTS:

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 sheet.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

SECTION 4. FIRST AID MEASURES

EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.

SWALLOWING:

Do NOT induce vomiting. Have patient lie down & keep warm. Vomiting may lead to severe damage to esophagus which may be fatal.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

NFPA Class B extinguishers (Carbon Dioxide or foam) for Class IIIB liquid fires.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.  
Do not enter confined fire-space without full bunker gear.

(Helmet with face shield, bunker coats, gloves & rubber boots).  
Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES

SLIGHTLY COMBUSTIBLE!

Keep container tightly closed.  
Isolate from oxidizers, heat, & open flame.  
Closed containers may explode if exposed to extreme heat.  
Applying to hot surfaces requires special precautions.  
Continue all label precautions!

SECTION 6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES

Stop spill at source. Dike area & contain.

CLEAN-UP PROCEDURES:

Clean up remainder with absorbent materials. Mop up & dispose of.

SECTION 7. HANDLING AND STORAGE

HANDLING

Isolate from oxidizers, heat, & open flame.  
Use only with adequate ventilation. Avoid breathing of vapor or spray mist.  
Do not get in eyes, on skin or clothing.  
Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.  
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.  
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, braze, or weld. Continue all label precautions!

STORAGE

When using, loosen bung slowly to relieve pressure.  
Do not store above 38 C/100 F. Store large amounts in structures made for OSHA Class IIIB liquids  
Keep container tightly closed  
& upright when not in use to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EXPOSURE CONTROLS

Ventilate to keep vapors of this material below 15 ppm.  
If over TLV, in accordance with 29 CFR 1910.134,  
use NIOSH approved positive-pressure self-contained breathing apparatus.  
Consult Safety Equipment Supplier. Use explosion-proof equipment.

VENTILATION

LOCAL EXHAUST	: Necessary
MECHANICAL (GENERAL)	: Acceptable
SPECIAL	: None
OTHER	: None

PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.  
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.  
Wash at end of each workshift & before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated  
leather articles. Launder or discard contaminated clothing.

SECTION 9. PHYSICAL DATA

APPEARANCE : Liquid,Water-White  
ODOR : Amine  
BOILING RANGE : 37 98 100 C / 100 210 212 F  
GRAVITY @ 60 F :  
SPECIFIC GRAVITY (Water=1) : .998  
POUNDS/GALLON : 8.32  
VAPOR PRESSURE (mm of Hg)@20 C 24.7  
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) 0.0  
VAPOR DENSITY (air=1) : .6  
WATER ABSORPTION : Complete  
REFRACTIVE INDEX : 1.333

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable

CONDITIONS TO AVOID

Isolate from oxidizers, heat, & open flame.

MATERIALS TO AVOID

Isolate from strong oxidizers such as permanganates,chromates & peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS

Nitrogen Oxide vapors from burning.

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Water	7732-18-5	9999 ppm	9999 ppm	No
Aqua Ammonia	1336-21-6	50 ppm	25 ppm	No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Aqua Ammonia	1336-21-6	None Known	35 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.

This product may cause allergic skin reaction.

Primary irritation to eyes,redness,tearing,blurred vision.

Liquid can cause Severe skin & eye burns . Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure

can cause serious nervous system depression. Vapor harmful.

can cause Allergic respiratory or asthma-like reaction.

SWALLOWING:

Harmful or fatal if swallowed.

Swallowingcan cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGREGATED

CONDITIONS AGGREGATED

Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA
Aqua Ammonia	1336-21-6	LOWEST KNOWN LD50 (ORAL) 250.0 mg/kg (Cats)
Aqua Ammonia	1336-21-6	LOWEST KNOWN LC50 (VAPORS) 10000 ppm (Mice)

AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is: Daphnia Pulex 2.4 ppm or mg/L (48 hour exposure).

Keep out of sewers and natural water supplies.

MOBILITY

This material is a mobile liquid.

DEGRADABILITY

This product is biodegradable.

ACCUMULATION

This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws.

If questions exist, contact the appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: None

"RQ," must be put before shipping name if in a container of over 15028 pounds.

DRUM LABEL:

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 171

SECTION 15. REGULATORY INFORMATION

EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health

All components of this product are on the TSCA list.

This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

SECTION 15. REGULATORY INFORMATION (CONTINUED)

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ (LBS)
Aqua Ammonia	1336-21-6	6 (311,312)	1000

IF > 15028 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" OF AQUA AMMONIA IS EXCEEDED.

STATE REGULATIONS:

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:

Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:  
HEALTH (NFPA): 3  
HEALTH (HMIS): 2  
FLAMMABILITY: 1  
REACTIVITY: 0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications.

All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.