

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: TRANSENE COMPANY, INC.
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MATERIAL NAME: **AMMONIUM HYDROXIDE 28-30%**

REVISED: March 1, 2022

CHEMICAL FAMILY: Ammonia Solution

SECTION 2. HEALTH HAZARD INFORMATION

Hazard Statements

H290 Corrosive to Metals: Category 1
H300 Acute toxicity Oral : Category 2
H313 Acute Toxicity Dermal: Category 5
H331 Acute toxicity Inhalation : Category 3
H315 Skin corrosion / Skin irritation : Category 2
H318 Serious eye damage / Eye irritation : Category 1
H400 Acute aquatic environmental hazards : Category 1

Pictograms or Hazard symbols



Warning: May be corrosive to metals

Danger: Fatal if swallowed. Toxic if inhaled.

Danger: Causes severe skin burns and eye damage. Causes serious eye damage.

Warning: Very toxic to aquatic life.

Precautionary Statements

P234 Keep only in original container.
P261 Avoid breathing fumes/mist/vapors.
P264 Wash 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 into the environment.
P280 Wear protective gloves, clothing, and eye and face protection.
P301 + P310 If swallowed, immediately call a physician.
P302 + P352 If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.
P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes.
P311 Seek medical assistance if not breathing.

P312 Call a physician if you feel unwell.
 P330 Rinse mouth.
 P332 + P313 If skin irritation occurs, get medical advice/attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P390 Absorb spillage to prevent material damage.
 P391 Collect spillage.
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P406 Store in corrosive resistant container.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

Material		Wt %	Toxicity
Ammonium Hydroxide	CAS# 1336-21-6	28-30	25 ppm (OSHA)
Water	CAS# 7732-18-5	70-72	
Total		100	

SECTION 4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

FIRST AID:

Overexposure to mist can cause tissue damage, especially to eyes and lungs.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	<u>LOWER</u>	<u>UPPER</u>
non-flammable	NA		NA	NA

Extinguishing media: Water spray or fog, carbon dioxide and dry chemical.

Special fire fighting procedures: None

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILLS, LEAKS: Ventilate area of leak or spill. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite.

SECTION 7. HANDLING AND STORAGE

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Do not breathe mist or vapor. Do not expose eyes, skin, or clothing. Keep container closed tightly. Use with adequate ventilation or respiratory protection. Do not store near combustibles or in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Separate from strong acids.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory protection: None required.

Ventilation: Where adequate ventilation is not available, use NIOSH approved vapor respirator with dust, fume and mist filters. Local ventilation through fume hoods or laminar flow stations is also preferred. Keep fumes away from strong bases.

Protective gloves: Skin contact should be minimized through use of rubber gloves.

Other protective equipment: Steel tipped shoes/eye wash station/chemical safety chemical retardant clothing.

Eye protection: Safety goggles / face shield

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form :	Liquid
Appearance :	Colorless
Odor :	Ammonia
pH :	11.6 (1.0 N)
Melting point:	-72 °C
Boiling point/Boiling range :	36 °C (water)
Flash point :	Non-flammable.
Ignition point :	Will not ignite.
Danger of explosion:	Product is not explosive
Vapor density (Air = 1) :	0.6
Volatiles, %:	> 80
Vapor pressure at 15° C, mm Hg:	580
Specific gravity :	0.9 g/cc
Solubility in / Miscibility:	Completely miscible in water
Evap. Rate (Water = 1):	> 1

SECTION 10. STABILITY AND REACTIVITY

Stability Stable X Conditions to avoid: Excess heat , light, confined spaces
Unstable

Incompatible with:
Strong acids; oxidizers

Hazardous decomposition products: Carbon and carbon oxides; ammonia

Hazardous May occur Conditions to avoid: Excess heat, damp.
polymerization: Will not occur X

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE

LD₅₀ (oral, rat): 350 mg/kg

Eye, rabbit, standard Draize, 250 microgram; severe

Investigated as a mutagen, tumorigen

LC₅₀ (inhalation, rat): 2000 ppm/4-hr

SECTION 12. ECOLOGICAL INFORMATION

Bioaccumulation : This material is not expected to bioaccumulate.

Ecotoxicity : This material is expected to be very toxic to aquatic life. The LC50/96 hour values for fish are less than 1 mg/L. The EC50/48 hour values for daphnia are less than 1 mg/L.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

SECTION 14. TRANSPORTATION INFORMATION

DOT Shipping Name: Ammonia Solution
UN2672
Class 8
PGIII

SECTION 15. REGULATORY

Symbol: C, Corrosive
R-Phrase:
R21/22: Harmful in contact with skin and if swallowed.
S-Phrases:
S17: Keep away from combustible material.

SECTION 16. OTHER INFORMATION

NFPA Codes:
Health: 3
Flammability: 1
Reactivity: 0
All ingredients of this product are listed on the US TSCA inventory under their parent anhydrous compounds.