

SECTION 1: Identification

Product Nar		nonium Hydroxide, ACS Reagent Ja Ammonia) Store below 30°C		
Other Identi	fiers Aqua	a Ammonia; 84410-09		
Recomment Uses Advise		General Laboratory Reagent/Chemical. Not intended for drug, food or household		
Address Telephone	SPEX CertiPrep, LLC 203 Norcross Ave. Metuchen, NJ 08840 U 1.732.549.7144	SA	24-Hour Emergency Telephone CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1 + 730-527-3887	
Website	www.spex.com			

SECTION 2: Hazard(s) Identification

Serious eye damage/eye irritation (Category 1)

Skin corrosion/irritation (Category 1)

Specific target organ toxicity, single exposure (Category 3)

Hazardous to the aquatic environment, short-term (Category Acute 1)

Hazards not otherwise classified or covered by GHS

None identified.

Signal Word

DANGER

Hazard Statements

Causes severe skin burns and serious eye damage. May cause respiratory irritation. Very toxic to aquatic life.

Precautionary Statements

Do not breathe mist, vapors or spray. Wash areas of contact/exposure thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves and clothing and eye protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash contaminated clothing before reuse. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Get medical help. In all cases of contact: Get emergency medical help immediately. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local, state, federal and international regulations.



SECTION 3: Composition / Information on Ingredients

Component Name	Component Number CAS	Component Number EC	Component Weight %
Ammonia	1336-21-6	215-647-6	28 - 30
Water	7732-18-5	231-791-2	Remainder



SECTION 4: First-Aid Measu	
General Advice	Show this SDS to attending physician if medical treatment is needed.
Skin Contact	Immediately flush affected area with plenty of water while removing contaminated clothing . Seek medical attention if there is any evidence of skin damage or persistent irritation.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Seek immediate medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult or labored, seek medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or physician.
Symptoms/effects	The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.
Treatment	Treat symptomatically.
SECTION 5: Fire-Fighting Me	easures
Extinguishing Media Specific Hazards	Substance is not flammable, use agent most appropriate to extinguish surrounding fire (water, carbon dioxide, dry chemical, sand/earth, foam). Thermal decomposition may produce toxic or irritating fumes.
Actions for Firefighters SECTION 6: Accidental Rele	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
Precautions and Procedures	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe
	areas. Keep people away from and upwind of spill/leak.
Environmental Precautions	Take all precautions to avoid release to the environment.
Containment and Clean Up	Wear respiratory protection, gloves, eye protection and protective clothing. Contain spill. Neutralize with bisulfate or absorb with inert absorbent material. Collect in suitable lidded container for disposal.
Section 7: Handling and Stor	
Handling	Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling this substance. Wear gloves, protective clothing and eye protection when handling this substance.
Storage	Keep containers tightly closed in a cool, dry and well-ventilated place. Protect from freezing and physical damage. Store separately from incompatible materials. Store locked up.
Section 8: Exposure Control	Is / Personal Protection
Engineering Controls	As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits.
Exposure Limits	Ammonia PEL-TWA 35 mg/m ³ US-OSHA
Exposure Limits	Ammonia REL-TWA 25 ppm US-NIOSH
Exposure Limits	Ammonia TLV-TWA 25 ppm US-ACGIH
Exposure Limits	Ammonia REL-STEL 35 ppm US-NIOSH
Exposure Limits	Ammonia REL-STEL 35 ppm US-ACGIH
Eye Protection	Wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.
Skin Protection	Wear chemical resistant gloves and protective clothing.
Respiratory Protection	Where exposure limits are exceeded and cannot be adequately controlled by other engineering means (such as a chemical fume hood), wear respiratory protection.
Section 9: Physical and Che	mical Properties
Physical State	Liquid
Appearance/Color	Colorless
Odor	Ammonia
Odor Threshold	34 ppm
Melting/Freezing Point	-73°C
Boiling Point/Range	36°C
Flammability	Not flammable
Flammable/Explosive Limits	Not applicable
Flash Point	Not applicable
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	Data not available
pH	13.6
Viscosity	Data not available



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Partition Coefficient (n-octand	ol/water) Data not available
Relative Density	.9
Vapor Pressure	2160 mm Hg at 25°C
Vapor Density	0.6 - 1.2
Evaporation Rate	Data not available
Particle Characteristics	Not applicable.
Section 10: Stability and Re	activity
Reactivity	Forms explosive compounds with many heavy metals, especially silver, lead, zinc and their salts (especially halide salts). Forms toxic fumes near volatile acids.
Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Reactions	Based on available data, no reaction hazards have been identified that would occur during normal handling and storage.
Conditions to Avoid	Avoid contact with incompatible materials.
Incompatible Materials	Acrolein, nitromethane, acrylic acid, chlorosulfonic acid, dimethyl sulfate, halogens, strong acids (hydrochloric, hydrofluoric, nitric, sulfuric), silver oxide, silver permanganate, oleum, beta-propiolactone, propylene oxide.
Hazardous Decomposition	Thermal decomposition can produce ammonia, nitrogen oxides.
Section 11: Toxicological In	formation
Acute Toxicity - Oral	LD50 (rat) 350 mg/kg
Acute Toxicity - Dermal	The toxicological data is limited or unavailable.
Acute Toxicity - Inhalation	LC50 (rat) 7338 ppm/1H
Skin Corrosion/Irritation	Causes severe skin burns.
Eye Damage/Irritation	This material can cause serious eye damage.
Respiratory Sensitization	Not expected to cause respiratory sensitization.
Skin Sensitization	Not expected to cause skin sensitization.
Germ Cell Mutagenicity	Based on available data, this substance does not meet the criteria set forth for classification as causing germ cell mutagenicity.
Carcinogenicity	This material has not been identified as a carcinogen by IARC or NTP.
Reproductive Toxicity	Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin.
STOT Single Exposure	May cause respiratory irritation.
STOT Repeated Exposure	None known.
Aspiration Hazard	This substance is not considered to be an aspiration hazard.
Other Information	No additional information available.



Section 12: Ecological Information

Toxicity Values	Acute LC50 (Fish-Gambusia affinis) 37 ppm/96H; Chronic NOEC (Fish-Dicentrarchus labrax) 0.204 mg/L/62d
Persistence/Biodegradability	Expected to biodegrade in soiil and air; reaches a pH dependent equilbrium of ammonia-ammonium ion in water.
Bioaccumlation Potential	Log Kow -1.38 (not expected to bioaccumulate).
Mobility in Soil	Expected to biodegrade in soil.
Other Adverse Effects	None known.
Section 13: Disposal Conside	rations

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

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302/304 An	monia
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SL/NDSL Or	or in compliance with DSL.
Proposition 65 Th	s product contains no substances on the list.
Other Information	
ATI BC CE DC DS EH EP GH IAF IDL NT OS PE PN PP ppt RC SA TLV TP TR TS TW UN	 Bioconcentration Factor RCLA Comprehensive Environmental Response, Compensation and Liability Act (USA) Department of Transportation (USA) Domestic Substances List (Canada) Extremely Hazardous Substance Environmental Protection Agency (United States) Globally Harmonized System International Agency for Research on Cancer Immediately Dangerous to Life and Health National Toxicology Program (USA) 4A Occupational Safety and Health Administration (USA) Permissible Exposure Limit DR Particulates Not Otherwise Classified Personal Protective Equipment Parts per billion Parts per billion Reportable Quantity Threshold Limit Value Threshold Planning Quantity Toxic Release Inventory (USA) A Tixe Substances Control Act (USA) A Tixe Substance Scottrol Act (USA) A Time Weighted Average United Nations
ate 05	13/21 Issue Date: 3/30/2022
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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: product safety department

Contact: SPEX CertiPrep, LLC. 1-732-549-7144