

MATERIAL SAFETY DATA SHEET

Product Name or Number(as it appears on the label)

BLUE RIBBON CLEAR AMMONIA

Section I - Product Identification

Manufacturer's Name	Date
Patterson Laboratories, Inc.	March 30, 1990
Address(No, Street, City, State & Zip Code)	Emergency Telephone No.
11930 Pleasant Avenue	1-313-782-2234, 1-313-283-1192
Detroit, MI 48217	Telephone No. for Information
	1-313-843-4500

Material Safety Data Sheet ID # 283000

Section II - Hazardous Ingredients

Hazardous Components (Specific Chemical Identity, Common Name)	OSHA PEL	ACGIH TLV	OTHER LIMITS	% OPTIONAL
Ammonia (AS NH3) *(Ammonia Gas)	50ppm	25ppm	NIOSH 50 ppm*	
HOUSEHOLD AMMONIA- FINISH PRODUCT	NA	NA		

Section III - Physical Data

Boiling Point 191-212.F	Specific Gravity (H2O=1) - 0.9890
Vapor Pressure - NA	Melting Point - NA
Vapor Density (Air=1) - NA	Evaporation Rate (but. ace.=1) - 1
Solubility in Water - Complete	Appearance and Odor - Clear, cloudy white or colored liquid with distinct ammonia odor

Section IV - Fire & Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL 16%	UEL 27%
Non-flammable		AS NH3	AS NH3

Extinguishing Media
Dry chemical, carbon dioxide, water spray or foam.

Special Fire Fighting Procedures
If possible, move product from fire area. Cool fire-exposed containers with water spray.

Unusual Fire And Explosion Hazards
Negligible fire and explosion hazard, however, if ammonia is evolved, it is flammable.

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* | Section V - Reactivity Data |
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* Material is stable. Conditions to avoid: Heat
* Hazardous polymerization: Will not occur
* Incompatibility (Materials to Avoid): Chlorine, bromine, iodine, hypochlorite, mineral acids, violent reactions may occur with incompatible material, releasing irritating or toxic gases.
* Hazardous Decomposition or Byproducts: Toxic oxides of nitrogen and ammonia gas.
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* | Section VI - Health Hazard Data |
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* Route (s) of Entry: Inhalation X Skin X Ingestion X
* Health Hazards (Acute and Chronic): Acute - Based on the testing of this product in animals, it is both an eye and skin irritant (rabbit) and toxic by ingestion (rat). Chronic - Not determined on this product.
* Carcinogenicity: NTP IARC MONOGRAPHS OSHA REGULATED
* N/A N/A N/A
* Not determined for finished product or ammonia (NH3), the hazardous component, in the product.
* Signs and Symptoms of Exposure: Ammonia (AS NH3) is the hazardous ingredient in the finished product. The effects described represent the "worst case" scenario. INHALATION: Mild exposure to ammonia vapors may cause irritation of the nose, throat, coughing and sneezing. A more severe exposure may cause respiratory irritation, dyspnea, pulmonary edema. Repeated or prolonged exposure to vapors may cause, in addition to irritation, bronchitis and pneumonia. INGESTION: May cause excessive salivation, nausea, vomiting, gastric irritation with chances of perforation. Ingestion of large quantities may produce CNS depression, shock and convulsions. SKIN: Powerful irritant, may cause severe burning pain and corrosive damage. Repeated or prolonged exposure may cause dermatitis. EYES: Powerful irritant, may cause conjunctivitis, swelling of eyelids, chemical burns, transient corneal damage, repeated or prolonged exposure may cause cataracts and retinal atrophy.
* Medical conditions generally aggravated by Exposure: None known
* Emergency and First Aid Procedures: EYES- Immediately flush eyes with water for at least 15 minutes. Get prompt medical attention. SKIN- Rinse well with water. If irritation persists, contact physician or local poison control center. INHALATION- Remove victim to fresh air. Provide symptomatic and supportive care. Contact physician or local poison control. INGESTION- Immediately give large amounts of water or milk to dilute. DO NOT induce vomiting. Get prompt medical attention.
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* | Section VII - Precautions for Safety Handling and Use |
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* Spill/Leak Procedure: EYE PROTECTION - Avoid eye contact. Wear protective safety goggles or face shield. SKIN - Avoid prolonged or repeated skin contact. Wear protective gloves. RESPIRATORY - Keep upwind of spill. Avoid breathing vapors. Use NIOSH approved respirator that will provide protection from ammonia gas. If ammonia vapors >300 PPM use self-contained breathing apparatus with full face shield.
* Waste Management/Disposal: Dilute with water and flush to sewer in accordance with Federal, state and Local Environmental regulations.
* Precautions to be taken in Handling and Storing: Do not mix with other household chemicals, such as bleach, automatic toilet bowl cleaners, wall or tile cleaners. Store in cool, ventilated area. Keep out of direct sunlight.
* Avoid overheating, plastic bottle will bulge from ammonia vapor pressure.
* Other Precautions: None
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* | Section VIII - Special Protection Information |
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* Respiratory protection(specify type): NIOSH approved respirator or breathing apparatus with face shield. VENTILATION: Local Exhaust-XX Mechanical- NA

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