

MATERIAL SAFETY DATA SHEET

SECTION I- IDENTIFICATION

Trade Name: Vytex® Natural Rubber Latex (NRL)
Chemical Name: Centrifuged High Ammonia Natural Rubber Latex
Use: For adhesives and a wide range of cast and dipped latex products.
Company: Vystar® Corporation
 3235 Satellite Boulevard, Building 400, Suite 290
 Duluth, GA 30096 USA
CAS Number: 9003-31-0 (for polymer)
Phone: +1 770-965-0383
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SECTION II- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Chemical & Common Name)	Wt.	CAS No.	OSHA PEL	ACGIH TLV
Ammonium Hydroxide:	<1.60	1336-21-6	---	---
Ammonia	---	7664-41-7	50 ppm	25 ppm
Ammonia generated from ammonium hydroxide exists in vapor space above latex				
Aluminum Hydroxide:	0-0.1%	21645-51-2	---	---

SECTION III- PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 100°C
Specific Gravity (H2O=1): 0.95 – 0.96
Vapor Pressure (mm Hg): 760 mm Hg for the water phase
Vapor Density (Air=1): Approximately equal water
Melting Point: NA
Freezing Point: 0°C
Solubility in Water: Dispersible
Percent Volatile by Volume:
Evaporation Rate: NA
Appearance and Odor: White, Milky Liquid/Ammonia Odor

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

Flash Point (method): NA
Flammable Limits: LEL-NA UEL-NA
Fire Extinguisher Type: Extinguishing Powder or Water Jet, Alcohol Resistant Foam or Carbon Dioxide
Fire/Explosion Hazards: Raw natural liquid latex is not considered to be a fire/explosion hazard
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.
Unusual Fire and Explosion Hazards: Raw natural liquid latex does not contain any antioxidants; unprotected latex, if allowed to dry, may smolder and eventually ignite. Combustion by-products: oxides of carbon
NFPA Rating: Health - 2 Fire - 0 Reactivity - 0
 Hazard Rating: 0= Insignificant 2= Moderate 3= High 4= Extreme

SECTION V- REACTIVITY DATA

Stability: Stable
Conditions to Avoid: NA
Incompatibility (materials to avoid): Acids/Salts cause coagulation
Hazardous Decomposition or By-Products: Ammonia (when liquid); Oxides of Carbon by combustion (when dry and unprotected)
Hazardous Polymerization: Will not occur

SECTION VI – HEALTH HAZARD DATA

NIOSH Alert (No. 97-135, June 1997): Workers exposed to latex gloves and other products containing natural latex may develop allergic reactions such as skin rashes; hives; nasal, eye, or sinus symptoms; asthma; and (rarely) shock.

Health Hazards

(Acute and Chronic): Ammonia vapors may cause burning eyes, runny nose, coughing and possibly chest pain.

Emergency and First Aid Procedures

Skin: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention

Eyes: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek medical aid.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Latex will coagulate in digestive tract. **Do not** induce vomiting; consult physician immediately. Never give anything by mouth to an unconscious person.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Procedures: Flush small/minor spills with water. Large spills should be contained and coagulated with calcium chloride or similar material. An absorbent material may also be used. After coagulation/absorption, shovel into appropriate container for disposal.

Waste Disposal

Methods: Coagulate and dispose of solid material in accordance with local regulations for disposal of non-hazardous waste.

Handling: Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin and clothes. Wash thoroughly after handling. Avoid smoking and ensure good ventilation. Wear goggles and gloves.

Storage: Keep away from heat and ignition sources. Keep container closed. Avoid storing in open vessels. Store indoor at between 10°C (50°F) and 30°C (86°F). Avoid excessive heat and cold; avoid freezing.

SECTION VIII - EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Ammonia Cartridge respirator in confined spaces.

Hand Protection: Gloves to prevent skin exposure, neoprene, latex or nitrile

Ventilation: Local exhaust

Eye Protection: Face shield, safety glasses or splash goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure. Any area of the body which has come into contact with this product should be washed with soap and water.

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