

**MATERIAL SAFETY DATA SHEET**

**SECTION I- IDENTIFICATION**

**Trade Name:** Vytex<sup>®</sup> LA  
**Chemical Name:** Centrifuged Low Ammonia Natural Rubber Latex  
**Use:** For adhesives and a wide range of cast and dipped latex products.  
**Company:** Vystar<sup>®</sup> Corporation  
 2480 Briarcliff Rd NE, #6  
 Suite 159  
 Atlanta, GA 30329 USA  
**CAS Number:** 9003-31-0 (for polymer)  
**Phone:** +1 770-965-0383  
**Date Prepared:** January 4, 2010

**SECTION II- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Hazardous Components (Chemical & Common Name)	Wt.	CAS No.	OSHA PEL	ACGIH TLV
Ammonium Hydroxide:	<0.60	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	---	---
Tetramethylthiuram Disulfide (TMTD)	<0.05	137-26-8	5 mg/m3	5 mg/m3

**SECTION III- PHYSICAL/CHEMICAL CHARACTERISTICS**

**Boiling Point:** 100<sup>o</sup>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<sup>o</sup>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.

The information contained herein is based on data considered to be accurate and has been obtained from outside companies and organizations. Vystar Corporation makes no warranty or representation that the information is accurate, complete or representative and the Buyer may rely or use this information at the Buyer's own risk. This data does not modify, amend or enlarge any specification or warranty.



Created by Nature. Recreated by Science.®