

**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  
 3235 Satellite Boulevard, Building 400, Suite 290  
 Duluth, GA 30096 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>0</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>0</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.

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