MATERIAL SAFETY DATA SHEET

| | ldon orporation | 221 Rochester Street Avon, NY 14414 (585) 226-6177 | MSDS No.: Revision Date Approved by: | •••••• | 8 ry 4, 2010 s A. Bertsch | ١ |
|---|--------------------|--|--|-------------|---------------------------------|---|
| Section 1 | Chemica | Product and Company Info | ormation | | | |
| Product | POLYVINY | LALCOHOL, 87% HYE | DROLYZED | | | |
| Synonyms | PVA; Etheno | l Homopolymer | | | | |
| CHEMTREC 24 | 4 Hour Emergency | Phone Number (800) 424-9300 | 0 | | | |
| Section 2 | Hazards | dentification | | | | |
| Emergency Ov | erview | | | 0 = Minimal | Health | 1 |
| CALITIONI | | | 1 = Slight | Fire | 1 | |
| MAY CAUSE EYE IRRITATION. Slipping hazard. Avoid dispersion of dust in air. May form explosive dust-air mixture. Target organs: None known. | | | 2 = Moderate 3 = Serious | Reactivity | 0 | |
| | | | | 4 = Severe | Contact | 1 |
| | | et organis. None Known. | | | | * |
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221 Rochester Stree

| Section 3 | Composition / Information on Ingredients | | | |
|-------------------|--|-----------|------|-----------------------------------|
| Chemical Name | | CAS # | % | TLV Units |
| Polyvinyl alcohol | | 9002-89-5 | 100% | None established. (ACGIH 2001) |
| Section 4 | First Aid Measures | | | |

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Dust dispersed in air is capable of creating a dust explosion when exposed to an ignition source. Avoid dispersion of dust in air. Oxidizing materials may accelerate the burning rate in a fire situation.

Extinguishing Media: Carbon dioxide, dry chemical, water spray, alcohol foam.

Flash Point: Not flammable.

Autoignition temperature: N/A

Explosion Limits: Lower: N/A Upper: N/A

| Section 6 | Accidental Release Measures |
|-----------|-----------------------------|
|-----------|-----------------------------|

Use proper personal protective equipment as indicated in Section 8. Remove all sources of ignition. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 Handling & Storage

GENERAL STORAGE CODE GREEN

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. **Handling:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

| Section 9 | Physical & Chemical Proper | ties | | |
|--|---|--|--|--|
| Physical state: Solid. Appearance: White, granular powder. Odor: No odor. pH: N/A Vapor pressure (mm Hg): N/A Vapor Density (Air = 1): 0.61-0.67 gms/cm ³ Evaporation rate (Butyl acetate = 1): N/A Viscosity: N/A | | Boiling point: N/A Freezing / Melting point: 230-240°C (446-464°F) Decomposition temperature: N/A Solubility: Soluble in hot water. Specific gravity ($H_2O = 1$): N/A Percent volatile (%): N/A Molecular formula: [-CH ₂ CH(OH)-]n Molecular weight: 100.000 | | |
| Section 10 | Stability & Reactivity | | | |
| Chemical stabilit Conditions to av | y: Stable void: Avoid the generation of dust. | Hazardous polymerization: Will not occur. | | |
| | | | | |

Incompatibilities with other materials: Oxygen, peroxides, perchlorates, nitrates and other oxidizers, reactive metals (sodium, zinc, calcium, copper, etc.)

Hazardous decomposition products: Carbon oxides.

Section 11 Toxicological Information

Effects of overexposure: Symptoms of exposure from ingestion may include inflammation of the mouth, throat, esophagus, and/or stomach. Contact with eyes may cause irritation with symptoms of irritation or burning. Non-irritating to skin. Inhalation may cause respiratory tract irritation with symptoms of nasal discharge, hoarseness, coughing, chest pain and breathing difficulty. Exercise appropriate procedures to minimize potential hazards.

ORL-RAT LD50: N/A IHL-RAT LC50: N/A SKN-RBT LD50: N/A

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

| Section 14 | Transport Information | | |
|-----------------------|----------------------------|--|--|
| UN/NA number: N/A | | | |
| Shipping name: No | t Regulated. | | |
| Hazard class: N/A | | | |
| Packing group: N/A | | | |
| Exceptions: N/A | | | |
| Section 15 | Regulatory Information | | |
| EINECS-not listed, TS | CA-not listed, DSL-listed. | | |
| Section 16 | Additional Information | | |

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards.

NFPA

0 = Minimal 1 = Slight

2 = Moderate 3 = Serious

4 = Severe