

MATERIAL SAFETY DATA SHEET

Polymer Innovations, Inc.
2426 Cades Way, Vista, CA 92081 USA
Phone: 760 598-0500 Fax: 760 727-3127

SECTION 1: PRODUCT IDENTIFICATION

Product Name: WB4101 Binder Concentrate

Issue or revision date: 8/22/13

Chemical Family: Water based acrylic

SECTION 2: HAZARDOUS INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>Quantity</u>	<u>Threshold level</u>	<u>Carcinogen</u>
Ammonium hydroxide (28% aqueous)	1336-21-6	< 1%	TWA 25* ppm ACGIH STEL 35* ppm OSHA	no listing
Acrylic polymers	not required	>10%	not established	no listing
Water	7732-18-5	>50%	not established	no listing

* As ammonia

SECTION 3: HEALTH HAZARD DATA

Summary of Acute Hazards: May cause eye and skin irritation.

Primary Routes of Exposure: Eye and skin contact.

Summary of Chronic Hazards: No appropriate human or animal data are available on the chronic health effects from prolonged or repeated exposure to this material.

SECTION 4: FIRST AID MEASURES

Inhalation: If overcome by exposure to vapors, remove victim to fresh air and obtain medical attention if breathing difficulty persists beyond 15 minutes.

Eye Contact: Immediately rinse with clean water for 20 - 30 minutes. Obtain emergency medical attention if pain or redness persists.

Skin Contact: Remove contaminated clothing as needed and wash skin thoroughly with mild soap and water.

Ingestion: Immediately drink 1- 2 glasses of water or milk.

SECTION 5: PHYSICAL DATA

Appearance: Viscous white hazy liquid

Boiling Point: 212 °F or 100 °C (water)

Vapor Pressure: 17 mm HG @20 °C (water)

Solubility in water: Dispersible

Percent Volatiles: greater than 50%

Freezing Point: Not available

Odor: mild ammonia like

Specific Gravity: 1.0 - 1.1

Vapor Density (air=1): Not available

pH: ~6 - 7

Theoretical VOC: Less than 20 g/l

SECTION 6: FIRE AND EXPLOSION HAZARD DATA

Flash Point: Noncombustible

Auto-ignition Temperature: Not applicable

Lower Explosive limit: Not applicable

Upper Explosive limit: Not applicable

Fire and Explosion Hazards: Dried product may burn.

Extinguishing Media: Dry chemical, CO₂, water fog, water spray.

Special Fire Fighting Procedures: No special requirements.

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SECTION 7: HANDLING AND STORAGE PRECAUTIONS

General: Use good personal hygiene practices. Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse.

Respiratory: No special requirements under normal use conditions. At higher concentrated levels a NIOSH or MSHA approved respirator should be used with ammonia/methylamine cartridge and dust filter.

Eye: Safety glasses with side shields or chemical splash goggles.

Skin: No special requirements under normal use conditions. If prolonged or repeated contact is possible: any impervious material.

Storage: Avoid temperature extremes. 34 °F (1 °C) to 120 °F (49 °C) recommended minimum and maximum storage temperatures. Product is however freeze and thaw stable.

SECTION 8: REACTIVITY DATA

Hazardous Polymerization: Not expected to occur

Hazardous Decomposition products: May generate CO, CO₂, H₂O, and acrylic monomers during thermal decomposition.

Materials to avoid: Materials not compatible with water and substances not compatible with ordinary organics such as strong oxidizers will not be compatible with this product

Conditions to avoid: Avoid temperature extremes as noted under storage.

SECTION 9: SPILL AND DISPOSAL INFORMATION

Spill: Contains ammonia. Do not let spilled or leaking material enter watercourse. May be toxic to aquatic life. Sweep or scrape up and containerize.

Disposal: Dispose of waste in accordance with all applicable Federal/ Provincial / State and local regulations regarding disposal.

SECTION 10: TRANSPORTATION INFORMATION

DOT Hazardous Material Proper Shipping Name: Not regulated by DOT or IATA.

SECTION 11: HAZARD RATING AND LABELING INFORMATION

NFPA: Health = 1 Flammability = 0 Reactivity = 0

HMIS: Health = 1 Flammability = 0 Reactivity = 0

SECTION 12: REGULATORY INFORMATION

Toxic Substance Control Act (TSCA): All ingredients are listed or excluded by TSCA.

Superfund Amendments and Reauthorization Act of 1988 (SARA): Does not contain significant quantities of any materials subject to reporting requirements.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA): Does not contain significant amounts of materials subject to reporting requirements.

SECTION 13: GENERAL COMMENTS

Abbreviations:

NISH: National Institute for Occupational Safety and Health **NFPA:** National Fire Protection Association

MSHA: Mine Safety and Health Administration **TSCA:** U. S. Toxic Substances Control Act chemical substance inventory

HMIS: Hazardous Material Information System (National Paint and Coatings Association).

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