

# MATERIAL SAFETY DATA SHEET

## SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

**PRODUCT NAME:** POLYURETHANE DISPERSION    **PRODUCT I.D. NUMBER (PIN):** N.A.  
**PRODUCT NUMBER:** R4105    **WHMIS CLASS:** D2B  
**PRODUCT USE:** Polyurethane Dispersion    **DOT HAZARD CLASS:** Non-Regulated  
**COMPANY:** Essential Industries, Inc.  
P.O. Box 12  
Merton, WI 53056-0012  
**EMERGENCY PHONE:** 800-843-6174

H.M.I.S.

|   | HEALTH                      | HAZARD RATING  |
|---|-----------------------------|--|
| 1 | FIRE                        | 4 = Extreme<br>3 = High<br>2 = Moderate<br>1 = Slight<br>0 = Insignificant |
| 0 | REACTIVITY                  |  |
| 0 | MAXIMUM PERSONAL PROTECTION |  |
| B |                             |  |

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

ABBREVIATION KEY: N.A. - Not Applicable N.E. = Not Established N.D. = Not Determined

## SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

| HAZARDOUS CHEMICAL IDENTITY       | CAS NO.     | %     | PEL  | TLV    | LD50                | LC50           |
|-----------------------------------|-------------|-------|------|--------|---------------------|----------------|
| Water                             | 7732-18-5   | 40-70 | N.E. | N.E.   | N.D.                | N.D.           |
| Modified Polyurethane, amine salt | Proprietary | 30-40 | N.E. | N.E.   | > 5000 mg/kg (est.) | N.E.           |
| n-Methyl-2-pyrrolidone            | 872-50-4    | 13    | N.E. | 100ppm | 4150 mg/kg (rat)    | > 5 mg/l (rat) |

This mixture contains 13% n-Methyl-2-pyrrolidone which is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372.

## SECTION 3 - PHYSICAL DATA

**Color:** Colorless to light yellow.    **Boiling Point:** 100°C (212°F)    **Vapor Pressure:** <30 mm of Hg    **pH:** 8.0  
**Odor:** Bland.    **Freezing Point:** 0°C (32°F)    **Vapor Density (Air=1):** <1    **1% pH:** N.A.  
**Physical State:** Liquid    **Water/Oil Distribution:** N.E.    **Evaporation Rate (Water=1):** N.E.    **Specific Gravity:** 1.04 gm/ml  
**Solubility in Water:** Complete    **Odor Threshold:** N.E.    **VOC Content:** 324 g/L    **Weight per Gallon:** 8.80 lbs./gal.

## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

**Flash Point and Method:** None.    **Autoignition Temperature:** N.A.    **Extinguishing Media:** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.  
**Flammable Limits:** N.A.    **LEL:** N.A.    **UEL:** N.A.    **Special Fire Fighting Procedures:** None.  
**Hazardous Combustion Products:** None known.    **Unusual Fire and Explosion Hazards:** None.

## SECTION 5 - REACTIVITY DATA

**Chemical Stability:** Stable.    **Hazardous decomposition of By-Products:** None known.  
**Incompatibility (Materials to Avoid):** None known.    **Hazardous polymerization:** Will not occur.

## SECTION 6 - TOXICOLOGICAL PROPERTIES

**Routes of Entry:** Skin contact. Eye contact.    **Toxicologically Synergistic Products:** None known.  
**Sensitization:** No.    **Medical Conditions Aggravated by Exposure:** None known.  
**EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):**  
**Eyes:** Direct contact may cause irritation.    **Carcinogenic Effects:** None known.  
**Skin:** Prolonged or repeated contact may cause irritation. May be absorbed through skin with prolonged or repeated contact.    **Mutagenic Effects:** None known.  
**Ingestion:** May cause gastrointestinal irritation, nausea, diarrhea.    **Teratogenic Effects:** None known.  
**Inhalation:** Prolonged exposure in poorly ventilated area may cause respiratory irritation.    **Reproductive Toxicity:** None known.

## SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

**Respiratory Protection:** None normally required with adequate ventilation.    **Ventilation:** Local Exhaust: Acceptable Mechanical: Recommended  
**Protective Gloves:** Rubber for prolonged exposure.    **Eye Protection:** Chemical splash goggles.  
**Protective Clothing and Equipment:** As needed to prevent wetting of skin.    **Work and Hygienic Practices:** After handling, always wash hands thoroughly with soap and water.  
**Storage Requirements:** Store in cool, dry area. Follow good housekeeping practices.    **Other Requirements:** Keep out of reach of children.

**Steps to be Taken if Material Spilled or Released:** Collect and reuse if possible. Flush to sewer with large quantities of water if permitted by regulatory authorities or absorb on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow runoff into public waterways.

**Waste Disposal:** Dispose of as permitted by all federal, provincial, state and local regulatory authorities.

## SECTION 8 - EMERGENCY FIRST AID PROCEDURES

### FIRST AID - NOTES TO PHYSICIAN:

**Eyes:** Flush with a large amount of water for 15 minutes holding eyelids open.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing and isolating all contaminated clothing and shoes.

**Ingestion:** Give 2-3 large glasses of water. Seek medical attention.

**Inhalation:** Remove to fresh air and rest.

**Note to Physician:** No additional information.

## SECTION 9 - PREPARATION INFORMATION

Prepared By: \*\*\*

Phone: 262-538-1122

Date of Preparation: \*\*\*