

# MATERIAL SAFETY DATA SHEET

## Section 1. Identification of the Substance/Preparation and of the Company/Undertaking

**PRODUCT NAME:** Polyurethane Dispersion

**PRODUCT NUMBER:** Essential R2635

**PRODUCT USE:** Polyurethane dispersion

**EMERGENCY PHONE:** 800-843-6174

**COMPANY:** Essential Industries, Inc.

P.O. Box 12

28391 Essential Rd.

Merton, WI 53056-0012

United States

**PHONE NUMBER:** 262-538-1122

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

## Section 2. Composition/Information on Ingredients

<u>HAZARDOUS CHEMICAL IDENTITY</u>	<u>%</u>	<u>CAS NO.</u>	<u>TLV-TWA (8 hours)</u>	<u>TLV-STEL (15 mins)</u>	<u>OSHA PEL</u>
Water	50-60	7732-18-5	N.E.	N.E.	N.E.
Amine Salt of Polyurethane	30-40	Proprietary	N.E.	N.E.	N.E.
Dipropylene glycol dimethyl ether	5-10	111109-77-4	N.E.	N.E.	N.E.
Propylene Glycol	5-10	57-55-6	N.E.	N.E.	N.E.

## Section 3. Hazards Identification

**ROUTES OF ENTRY:** Skin contact. Eye contact.

**POTENTIAL ACUTE HEALTH EFFECTS**

**Eyes:** May cause: Moderate Irritation

**Skin:** Prolonged or repeated contact may cause: Moderate Irritation

**Ingestion:** May cause: Nausea. Abdominal discomfort.

**Inhalation:** May cause: Moderate Irritation

### H.M.I.S.

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

## Section 4. First Aid Measures

**FIRST AID - NOTES TO PHYSICIAN**

**Eyes:** Flush with a large amount of water for 15 minutes holding eyelids open. If irritation persists, get medical attention.

**Skin:** Wash with mild soap and water. If irritation, redness or discomfort is present, get medical attention immediately.

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

**Inhalation:** Remove to fresh air and rest. If you feel unwell, seek medical attention and show the label when possible.

**Note to Physician:** Immediately drink 1-2 glasses of water. DO NOT induce vomiting.

## Section 5. Fire Fighting Measures

**EXTINGUISHER MEDIA:** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**FLASH POINT:** None.

**SPECIAL FIRE FIGHTING PROCEDURES:** None.

**Autoignition Temperature:** N.A.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None.

**LEL:** N.A. **UEL:** N.A.

## Section 6. Environmental Precautions and Clean-up Methods

**STEPS TO BE TAKEN IF MATERIALS IS SPILLED OR RELEASED:**

Absorb spillage in suitable inert material. Sweep and scrape up and containerize. Rinse affected area thoroughly with water.

## Section 7. Handling and Storage

**HANDLING REQUIREMENTS:** Avoid contact with eyes, skin and clothing.

**STORAGE REQUIREMENTS:** Store in cool, dry area. Follow good housekeeping practices.

### Section 8. Exposure Controls and Personal Protection

**ENGINEERING CONTROLS** Local Exhaust: Acceptable Mechanical: Recommended

**PROTECTIVE CLOTHING** **HYGIENIC MEASURES:** Do not eat, drink or smoke during use.

**Protective Gloves:** Rubber for prolonged exposure.

**Eye Protection:** Safety glasses if splashing is likely.

**Respiratory Protection:** None normally required with adequate ventilation.

**Protective Clothing and Equipment:** As needed to prevent wetting of skin.

### 9. Physical and Chemical Properties

<b>COLOR:</b> Translucent	<b>BOILING POINT:</b> N.E.	<b>VAPOR PRESSURE:</b> N.E.	<b>VOC:</b> 1.2 lbs/gal
<b>ODOR:</b> Mild	<b>FREEZING POINT:</b> N.E.	<b>VAPOR DENSITY:</b> N.E.	<b>pH:</b> 7.2-8.2
<b>PHYSICAL STATE:</b> Liquid	<b>SPECIFIC GRAVITY:</b> 1.03 g/ml	<b>EVAPORATION RATE:</b> N.E.	<b>SOLUBILITY:</b> Complete

### Section 10. Stability and Reactivity

**CONDITIONS TO AVOID/INCOMPATIBILITY(MATERIALS TO AVOID):** None known.

**HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:** Produces normal products of decomposition.

**STABILITY:** Stable.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### Section 11. Toxicological Information

<u>Ingredient Name</u>	<u>LD50</u>	<u>LC50</u>
Water	N.E.	N.E.
Amine Salt of Polyurethane	> 5000 mg/kg (est.)	N.E.
Dipropylene glycol dimethyl ether	3300 mg/kg	N.D.
Propylene Glycol	>4000 mg/kg (rat)	N.D.

#### DEVELOPMENT TOXICOLOGICAL DATA

**Carcinogenic Effects:** None known.

**Teratogenic Effects:** None known.

**Mutagenic Effects:** None known.

**Reproductive Toxicity:** None known.

### Section 12. Ecological Information

**MOBILITY:** Not determined. **ACCUMULATION:** Not determined. **ECOTOXICITY:** Not determined.

**DEGRADABILITY:** The biodegradability of this product as a whole has not been determined; however information on the biodegradability of the ingredients contained within this product can be obtained by contacting our Regulatory Department.

### Section 13. Disposal Considerations

**WASTE & HANDLING INFORMATION:** Dispose of as permitted by all regulatory authorities.

*Note: The waste generator must be informed of and follow all rules and regulations governing the handling and disposal of waste.*

### Section 14. Transport Information

#### TRANSPORTATION INFORMATION

<b>DOT:</b> Not Regulated.	<b>IMDG:</b> Not Regulated.	<b>IATA:</b> Not Regulated.
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**Section 15. Regulatory Information**

**REGULATORY**

This mixture does not contain any components which are 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 16. Other Information**

**Prepared By:** Regulatory Affairs Department

**Date of Preparation:** 8/18/2008.

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