

# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION

**Product name:** Liquid Alkaline Builder (#1117)

**Recommended use:** Alkaline builder

**Manufacturer:** EnviroWay Detergent Manufacturing Incorporated  
2241 Hanselman Ave.  
Saskatoon, SK S7L 6A7, Canada  
Tel: 306-244-7727  
Fax: 306-244-7772  
Toll free: 1-888-274-0862, [www.envioway.ca](http://www.envioway.ca)

**Emergency phone:**

**Leak and Spill:** 1-800-667-7525 (SASK SPILLS) for the Province of Saskatchewan  
1-866-845-6037 (Environment Canada) for anywhere else

**In Transit:** 1-613-996-6666 or \*666 on cellular phone (CANUTEC)

**Poison Control:** 1-866-454-1212 (Saskatchewan)

## SECTION 2: HAZARD IDENTIFICATION

### CONCENTRATE HAZARDS:

#### Hazard classification

|                               |            |
|-------------------------------|------------|
| Acute toxicity – Oral         | Category 5 |
| Skin corrosion/irritation     | Category 1 |
| Serious eye damage/irritation | Category 1 |
| Corrosive to metals           | Category 1 |

**Signal word**    Danger



#### Hazard statements

May be harmful if swallowed.  
Causes severe skin burns and eye damage.  
May be corrosive to metals.

#### Precautionary statements

**Prevention**    Keep only in original packaging.  
Wash hands thoroughly after handling.  
Wear protective gloves, protective clothing, eye protection, and face protection.  
Do not breathe mist, vapours or spray.

**Response**      Absorb spillage to prevent material-damage.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 IF ON SKIN (or hair): Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 Immediately call a POISON CENTRE or doctor/physician.

**Storage** Store locked up.  
**Disposal** Dispose of in accordance with local regulations at government approved waste sites.

## SECTION 3: COMPOSITION

The following ingredients have hazardous properties:

| Ingredient                    | CAS #      | % by weight |
|-------------------------------|------------|-------------|
| Lauryl alcohol ethylene oxide | 9002-92-0  | 5-10        |
| Tetrasodium EDTA              | 64-02-8    | 1-5         |
| Potassium hydroxide solution  | 1310-58-3  | 5-10        |
| Imidazolium compounds         | 68604-71-7 | 1-5         |

Ingredients not shown are either not hazardous or present below cut-off values. Ranges shown are due to batch-to-batch variation.

## SECTION 4: FIRST AID MEASURES

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

**IF ON SKIN (or hair):** Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTRE/doctor.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

## SECTION 5: FIRE FIGHTING MEASURES

**Flammable:** No

**Means of Extinction:** Use water spray, dry chemical, carbon dioxide or foam.

**Special Fire Fighting Procedures:** Use water spray to keep containers cool. Fire fighters should wear self-contained breathing apparatus and full protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedures:** Mop spillage. Use a water rinse for final cleanup.

## SECTION 7: HANDLING AND STORAGE

**Handling Procedures and Equipment:** Wear protective gloves, protective clothing, eye protection, and face protection. Wash thoroughly after handling. Do not breathe mist, vapours or spray. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace.

**Storage Requirements:** Store in original packaging only. Store in a dry, well-ventilated area. Store away from direct sunlight and heat. Store in original container away from incompatible materials. Store locked up.

## SECTION 8: PERSONAL PROTECTION

| Ingredient                    | Exposure limit – ACGIH                           | Exposure limit – OSHA                                      | Exposure limit – IDLH |
|-------------------------------|--|--|-----------------------|
| Lauryl alcohol ethylene oxide | Not available                                    | Not available  | Not available         |
| Tetrasodium EDTA              | Not available                                    | Not available  | Not available         |
| Potassium hydroxide solution  | TLV-C 2mg/m <sup>3</sup>                         | PEL-C 2mg/m <sup>3</sup>                                   | Not available         |
| Imidazolium compounds         | Methanol (CAS 67-56-1) STEL 250 ppm, TWA 200 ppm | Methanol (CAS 67-56-1) PEL 260 mg/m <sup>3</sup> , 200 ppm | Not available         |

**Gloves:** Wear protective gloves.

**Eye:** Use chemical safety glasses. Contact lenses should not be worn.

**Clothing:** Wear protective clothing.

**Other:** An eyewash station and shower should be kept available nearby.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear liquid

**Odour:** Alkaline

**Odour Threshold (ppm):** Information not available

**pH:** 13±0.2

**Freezing Point:** Information not available

**Initial Boiling Point/Range:** Information not available

**Flash point:** Information not available

**Evaporation Rate:** Information not available

**Flammability:** Not flammable

**Upper/lower flammability/explosive limit:** Information not available

**Vapour Pressure (mmHg):** Information not available

**Vapour Density (air = 1):** Information not available

**Relative density:** Information not available

**Solubility in Water:** Soluble

**Partition coefficient:** Information not available

**Auto-ignition temperature:** Information not available

**Decomposition temperature:** Information not available

**Viscosity:** Information not available

## SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Hazardous Polymerization:** Will not occur.

**Materials to Avoid:** Strong acids and oxidizers.

**Hazardous Decomposition Products:** Potassium oxide fumes may be generated when heated.

## SECTION 11: TOXICOLOGICAL INFORMATION

| Ingredient                    | LD50 oral (mg/kg) (rat) | LD50 dermal (mg/kg) | LC50 inhalation (mg/L) |
|-------------------------------|-------------------------|---------------------|------------------------|
| Lauryl alcohol ethylene oxide | 4150                    | 72000               | Not available          |
| Tetrasodium EDTA              | Not available           | Not available       | Not available          |
| Potassium hydroxide solution  | 273                     | Not available       | Not available          |
| Imidazolium compounds         | 5000                    | Not available       | Not available          |

### EFFECTS OF ACUTE EXPOSURE:

**Ingestion:** May be harmful if swallowed. Can cause burns to the mouth, throat, esophagus and gastrointestinal tract.

**Skin Contact:** Causes serious skin burns.

**Eye Contact:** Causes severe eye damage.

**Germ cell mutagenicity:** Not applicable

**Carcinogenicity:** Not applicable

**Reproductive toxicity:** Not applicable

**STOT single exposure:** Not applicable

**STOT repeated exposure:** Not applicable

**Aspiration hazard:** Not applicable

**Routes of exposure:** Ingestion, inhalation, skin/eye exposure

### EFFECTS OF CHRONIC EXPOSURE:

**Skin Contact:** Not known.

**Eye Contact:** Not known.

**Ingestion:** Not known

### Numerical measures of toxicity:

**Oral:** LD50 3,036 mg/kg

**Dermal:** LD50 1,411,764 mg/kg

**Inhalation:** LC50 168,627 mg/L

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity:

| Ingredient                    | Fish   | Crustaceans   | Algae                               |
|-------------------------------|--|---|-------------------------------------|
| Lauryl alcohol ethylene oxide | LC <sub>50</sub> (96h) 1.4 mg/L                        | LC <sub>50</sub> (48h): >6.46 mg/L                    | Not available                       |
| Tetrasodium EDTA              | LC <sub>50</sub> (96h): 2.6-2.9mg/L                    | EC <sub>50</sub> (48hr): 1.2-2.7mg/L (Daphnia magna)  | EC <sub>50</sub> : 0.64-1.3mg/L     |
| Potassium hydroxide solution  | LC <sub>50</sub> (96hr): 80 mg/L (Gambusia affinis)    | LC <sub>50</sub> (48hr): 40 mg/L (Ceriodaphnia dubia) | EC <sub>50</sub> (120hr): 1337 mg/L |
| Imidazolium compounds         | LC <sub>50</sub> (48h): 70.7mg/L (Pimephales promelas) | EC <sub>50</sub> (48h): 4.9mg/L (Daphnia)             | Not available                       |

**Persistence and Degradability:** No information available

**Bioaccumulation/Accumulation:** No information available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Dispose of in accordance with local regulations at government approved waste sites.

## SECTION 14: TRANSPORT INFORMATION

**Special Shipping Information:** None

**TDG (Canada):**

**TDG Proper Shipping Name:** Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide)

**Hazard Class:** Class 8

**UN Number:** UN3266

**Packing Group:** II

**Note:** No additional remark.

**Marine Pollutant:** None

## SECTION 15: REGULATORY INFORMATION

**Canadian DSL Inventory Status:** All ingredients are specified on the Domestic Substances List or exempt

## SECTION 16: OTHER INFORMATION

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