

# Material Safety Data Sheet

## Liquid Detergent

### 1. Product and company identification

|                      |   |                             |                                      |
|----------------------|---|-----------------------------|--------------------------------------|
| <b>Product name</b>  | Liquid Detergent  | <b>In case of emergency</b> | 1-800-843-6174                       |
| <b>Code</b>          | 6139FS  | <b>Validation date</b>      | 11/8/2011.                           |
| <b>Material uses</b> | Liquid Hand Dishwashing Detergent   | <b>Print date</b>           | 11/8/2011.                           |
| <b>Manufacturer</b>  | Essential Industries, Inc.<br>P.O. Box 12<br>Merton, WI 53056-0012<br>Phone: 262-538-1122 | <b>Responsible name</b>     | <b>Regulatory Affairs Department</b> |

#### Hazardous Material Information System (U.S.A.)

|                            |          |                      |
|----------------------------|----------|----------------------|
| <b>Health</b>              | <b>1</b> | <b>HAZARD RATING</b> |
| <b>Flammability</b>        | <b>2</b> | 4 = Extreme          |
| <b>Physical hazards</b>    | <b>0</b> | 3 = High             |
| <b>Personal protection</b> | <b>B</b> | 2 = Moderate         |
|                            |          | 1 = Slight           |
|                            |          | 0 = Insignificant    |

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

### 2. Hazards identification

|                           |   |
|---------------------------|---|
| <b>Emergency overview</b> | <b>WARNING!</b><br>FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.<br><br>Flammable liquid. May be harmful if swallowed. Severely irritating to the eyes and skin. Keep away from heat, sparks and flame. Do not ingest. Do not get in eyes. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. |
|---------------------------|---|

#### Potential acute health effects due to overexposure

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | No known significant effects or critical hazards.            |
| <b>Ingestion</b>  | Harmful if swallowed.  |
| <b>Skin</b>       | Severely irritating to the skin.                             |
| <b>Eyes</b>       | Severely irritating to eyes. Risk of serious damage to eyes. |

#### Potential chronic health effects due to overexposure

|                              |   |
|------------------------------|---|
| <b>Carcinogenicity</b>       | No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | No known significant effects or critical hazards. |
| <b>Teratogenicity</b>        | No known significant effects or critical hazards. |
| <b>Developmental effects</b> | No known significant effects or critical hazards. |
| <b>Fertility effects</b>     | No known significant effects or critical hazards. |

See toxicological information (section 8)

### 3. Composition/information on ingredients

| <b>Name</b>                   | <b>CAS number</b> | <b>%</b> |
|-------------------------------|-------------------|----------|
| Etoxon EPA                    | 9004-82-4         | 10 - 30  |
| sodium chloride               | 7647-14-5         | 5 - 10   |
| Alcohols, C12-15, ethoxylated | 68131-39-5        | 1 - 5    |

### 4. First aid measures

|                                   |  |
|-----------------------------------|--|
| <b>Eye contact</b>                | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. |
| <b>Inhalation</b>                 | Move exposed person to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.   |
| <b>Ingestion</b>                  | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.  |
| <b>Protection of first-aiders</b> | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.                           |
| <b>Notes to physician</b>         | No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |

## 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Flammability of the product</b>                    | Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.  |
| <b>Extinguishing media</b>                            |  |
| <b>Suitable</b>                                       | Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.   |
| <b>Special exposure hazards</b>                       | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| <b>Hazardous thermal decomposition products</b>       | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>sulfur oxides<br>halogenated compounds<br>metal oxide/oxides   |
| <b>Special protective equipment for fire-fighters</b> | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  |
| <b>Flash point</b>                                    | Closed cup: 58.9°C (138°F)   |

## 6. Control and preventive measures

|                                |   |
|--------------------------------|---|
| <b>Storage</b>                 | Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. |
| <b>Personal protection</b>     |   |
| <b>Respiratory</b>             | None required. However, use of adequate ventilation is good industrial practice.  |
| <b>Hands</b>                   | None normally required.   |
| <b>Skin</b>                    | None normally required.   |
| <b>Eyes</b>                    | None normally required.   |
| <b>Methods for cleaning up</b> |   |
| <b>Small spill</b>             | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.  |
| <b>Waste disposal</b>          | Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.  |

## 7. Physical and chemical properties

|                       |            |                                   |                           |
|-----------------------|------------|-----------------------------------|---------------------------|
| <b>Physical state</b> | Liquid     | <b>Boiling/condensation point</b> | 100°C (212°F)             |
| <b>Color</b>          | Blue       | <b>Melting/freezing point</b>     | 0°C (32°F)                |
| <b>Odor</b>           | Floral     | <b>Vapor pressure</b>             | <4 kPa (<30 mm Hg) [20°C] |
| <b>VOC</b>            | 4.4%       | <b>Vapor density</b>              | <1 [Air = 1]              |
| <b>pH</b>             | 5.5 to 6.5 | <b>Weight per Gallon:</b>         | 8.91 lbs/gal              |
| <b>1% pH:</b>         | 7          | <b>Specific Gravity:</b>          | 1.06 gm/ml                |

## 8. Toxicological information

### Acute toxicity

| Product/ingredient name       | Result               | Species | Dose       | Exposure |
|-------------------------------|----------------------|---------|------------|----------|
| Etixon EPA<br>sodium chloride | LD50 Oral            | Rat     | 1600 mg/kg | -        |
|                               | LD50 Intraperitoneal | Rat     | 2600 mg/kg | -        |
|                               | LD50 Oral            | Rat     | 3000 mg/kg | -        |
|                               | LDLo Intraperitoneal | Rat     | 3.72 g/kg  | -        |
|                               | LDLo Subcutaneous    | Rat     | 3500 mg/kg | -        |
|                               | TDLo Intraperitoneal | Rat     | 491 mg/kg  | -        |
|                               | TDLo Oral            | Rat     | 1.43 mg/kg | -        |
| Alcohols, C12-15, ethoxylated | LD50 Oral            | Rat     | 2 g/kg     | -        |

**Conclusion/Summary** Not available

### Chronic toxicity

**Conclusion/Summary** Not available

## 9. Transport information

| Regulatory information | UN number     | Proper shipping name | Classes | PG* | Label | Additional information                        |
|------------------------|---------------|----------------------|---------|-----|-------|---|
| DOT Classification     | Not regulated | -                    | -       | -   |       | Review if Shipped in Package Over 119 Gallons |

PG\* : Packing group