This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

Section I - Product & Company Identification

**Product identifier**
Product name: LIQUID LAUNDRY DETERGENT
Product form: Liquid
Other means of identification: LB080

Relevant identified uses of the substance or mixture: Liquid detergent

**Details of the supplier of the safety data sheet**
Manufacturer:
Diversified Chemical Products, Inc. 4124 B NW Riverside Street, Riverside, MO 64150
Phone: 816-472-5515

**Emergency telephone number**
Emergency number: CHEMTREC: 1-800-424-9300

Section II – Hazards Identification

**Classification**
Corrosive to metals – Category 1
Serious eye damage/Eye Irritation - Category 1
Skin corrosion/ irritation - Category 2
Acute toxicity, Oral – Category 5

**Pictogram**

**Signal Word**
Danger

**Hazard Statements**
May be corrosive to metals.
May be harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.

**Precautionary Statements – Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
**Precautionary Statements – Response**
Absorb spillage to prevent material damage.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash skin with plenty of soap and water. If irritation occurs get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER/doctor if you feel unwell.
IF SWALLOWED: Do not induce vomiting. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

**Precautionary Statements – Storage**
Store in a corrosion resistant container. Keep containers tightly closed in a dry, cool and well-ventilated place.

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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**Section III – Composition/Information on ingredients**

<table>
<thead>
<tr>
<th>Mixture</th>
<th>CAS #</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>1-5</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>1-5</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>127087-87-0</td>
<td>20-30</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to process variation.

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**Section IV – First Aid Measures**

**Inhalation**: Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.

**Eye Contact**: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.

**Ingestion**: Rinse mouth. Immediately call a POISON CENTER or doctor/physician if you feel unwell.

**Skin Contact**: Remove contaminated clothing, wash with plenty of water. If skin irritation persists, call a physician.

**Most Important Symptoms and Effects, both Acute and Delayed**

**Symptoms**
May cause skin irritation and serious eye damage.

**Indication of any Immediate Medical Attention and Special Treatment Needed**

**Note to Physicians**: Treat symptomatically.

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**Section V – Fire Fighting Measures**

**Suitable Extinguishing Media**

Alcohol resistant foam, dry chemical or carbon dioxide, water spray.

**Unsuitable Extinguishing Media**: No data available.

**Specific Hazards Arising from the Chemical**

No data available

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH approved and full protective gear. Keep upwind of the fire.

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**Section VI – Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions** Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.

**Methods and Material for Containment and Cleaning Up**

**Methods for Containment**: Prevent further leakage or spillage if safe to do so. Prevent discharge to the environment. Pick up and arrange for disposal.

**Methods for Cleaning Up**: Use non-combustible material like vermiculite, sand or earth to soak up the product and place into a suitable container for later disposal.

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**Section VII – Handling & Storage**

**Precautions for Safe Handling**

**Advice on Safe Handling**: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

**Conditions for Safe Storage, Including any Incompatibilities**

**Storage Conditions**: Keep containers tightly closed in a dry, cool and well-ventilated place.
**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>2 mg/m³</td>
<td>No exposure limits</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>TWA: 200 ppm</td>
<td>TWA: 400 ppm</td>
<td>No exposure limits</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>127087-87-0</td>
<td>No exposure limits</td>
<td>No exposure limits</td>
<td>No exposure limits</td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

**Engineering Controls:** Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection:** Wear approved chemical safety goggles/face shield at all time. Eyewash station is recommended.

**Skin and Body Protection:** Wear suitable protective clothing. Nitrile rubber gloves.

**Respiratory Protection:** Ensure adequate ventilation, especially in confined areas. Wear respiratory protection where airborne concentrations are expected to exceed exposure limits.

**General Hygiene Considerations:** Avoid contact with eyes and skin. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

**Section IX – Physical & Chemical Properties**

**Information on Basic Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Blue</td>
</tr>
<tr>
<td>pH</td>
<td>13-14</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>82.2-100 °C (180-212 °F)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper Flammable Limits</td>
<td>19 %</td>
</tr>
<tr>
<td>Lower Flammable Limits</td>
<td>2 %</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Specific Gravity: 1.01
Water Solubility: soluble in water
Solubility in Other Solvents: No data available
Partition Coefficient: No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Kinematic Viscosity: No data available
Dynamic Viscosity: No data available
Explosive Properties: Not an explosive
Oxidizing Properties: Not an oxidizer
Odor: Lilac
Odor Threshold: No data available

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**Section X – Stability & Reactivity**

**Reactivity**

Not reactive

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

No data available.

**Conditions to Avoid**

No data available.

**Incompatible Materials**

Strong oxidizing agents

**Hazardous Decomposition Products**

Carbon oxides.

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**Section XI - Toxicological information**

**Information on Likely Routes of Exposure**

**Product Information:**

**Inhalation:** Avoid breathing dust or mists.

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

**Skin Contact:** Causes skin burns.

**Ingestion:** Harmful if swallowed.

This product as a whole has not been tested for acute toxicity; the following is based on component data:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>273 mg/kg (Rat)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>5840 mg/kg (Rat)</td>
<td>12800 mg/kg (Rabbit)</td>
<td>No data available</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>127087-87-0</td>
<td>No data available</td>
<td>&gt;2000 mg/kg (Rabbit)</td>
<td>No data available</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Potassium hydroxide</td>
<td>Isopropyl alcohol</td>
<td>Nonylphenol, ethoxylated</td>
<td></td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>---------------------</td>
<td>-------------------</td>
<td>--------------------------</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Skin irritation</td>
<td>No data available</td>
<td>skin irritation</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Serious eye damage</td>
<td>Serious eye irritation</td>
<td>Serious eye damage</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available</td>
<td>No data available</td>
<td>Not a sensitizer</td>
<td></td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>No positive data available</td>
<td>No known significant effects or critical hazards</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No carcinogenic properties</td>
<td>No known significant effects or critical hazards</td>
<td>Not considered to be a carcinogen.</td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No data available</td>
<td>No known significant effects or critical hazards</td>
<td>Not expected to cause.</td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity- Single exposure</td>
<td>No data available</td>
<td>Respiratory tract irritation.</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity- repeated exposure</td>
<td>No data available</td>
<td>Not applicable</td>
<td>Not classified</td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No data available</td>
<td>Not applicable</td>
<td>Not an aspiration hazard</td>
<td></td>
</tr>
</tbody>
</table>

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

**Carcinogenicity:** This product does not contain carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical Measures of Toxicity:** Not determined

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**Section XII - Ecological information**

**Ecotoxicity**

There is no data available for this product as a whole.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>127087-87-0</td>
<td>No data available</td>
<td>LC50-Fathead minnow(Pimephales promelas) 73-96 mg/l, 96 h</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Persistence and Degradability**

No data available

**Bioaccumulation**

No data available

**Mobility**

No data available
Section XIII - Disposal considerations

Waste Disposal Method
Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

Section XIV - Transport information

DOT Proper Shipping Description:
Bulk & Non Bulk: Laundry detergent, not regulated as dangerous goods.

Section XV - Regulatory information

SARA Title III Section 311/312 (40CFR370): acute health hazard.
SARA Title III Section 313 (40CFR372): 2-Butoxyethanol
RCRA Status (40CFR261.33): No reportable components.
TSCA Inventory Status: Reported/included
OSHA/NTP/IARC Carcinogen Status: Not listed
Canadian DSL Status: Reported/included

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:
None.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Section XVI - Other information

HMIS ratings: Health: 3 Flammability: 0 Reactivity: 1
Indication of changes: Revision – 2
Date Sheet Prepared: 10/07/2015 Other information: Author – EHS Administrator

The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranty’s, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

END OF SDS