1. IDENTIFICATION

Product Identifier
Product Name  Surge Bio-Active Laundry Detergent

Other Means of Identification
Product Code  414100

Recommended Use of the Chemical and Restrictions on Use
Recommended Use  Laundry detergent concentrate. For industrial use.

Details of the Supplier of the Safety Data Sheet
Midlab, Inc.
140 Private Brand Way
Athens, TN 37303

Emergency Telephone Number
Company Phone Number  Phone: 1-423-337-3180
Emergency Telephone (24 hr)  INFOTRAC 1-352-323-3500 (International)
                                      1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance  Blue  Physical State  Liquid  Odor  Fresh

Classification

<table>
<thead>
<tr>
<th>Hazard Statement</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 3</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2 Sub-category A</td>
</tr>
<tr>
<td>Aquatic Toxicity Acute</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Signal Word
Warning

Hazard Statements
Causes mild skin irritation.
Causes serious eye irritation.
Harmful to aquatic life.

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling.
Wear eye protection/face protection.
Avoid release to the environment.

Precautionary Statements – Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
If skin irritation occurs: Get medical advice/attention.
Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage
No other specific measures identified.

Precautionary Statements - Disposal
Dispose of contents/container in accordance with local, regional, or national regulations.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>40-70</td>
</tr>
<tr>
<td>Alcohol Alkoxylate</td>
<td>68987-81-5</td>
<td>15-40</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>5-10</td>
</tr>
<tr>
<td>Sodium Tetraborate</td>
<td>12179-04-3</td>
<td>1-5</td>
</tr>
<tr>
<td>Sodium Citrate</td>
<td>6132-04-3</td>
<td>1-5</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

**First Aid Measures**

**Eye Contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation develops or persists seek medical attention.

**Skin Contact**
Wash off immediately with plenty of water for at least 15 minutes.

**Inhalation**
Remove to fresh air.

**Ingestion**
Clean mouth with water and drink afterwards plenty of water. If any discomfort persists, obtain medical attention.

**Most Important Symptoms and Effects**

**Symptoms**
Prolonged or repeated exposure can remove natural skin oils and may produce irritation.

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

**Notes to Physician**
Treat symptomatically. May aggravate pre-existing skin disorders.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

**Unsuitable Extinguishing Media**
Not determined.

**Specific Hazards Arising from the Chemical**
None known.

**Hazardous Combustion Products**
Normal products of combustion.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet.

**Environmental Precautions**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13, Disposal Considerations, for additional information. See Section 12 for additional Ecological Information.

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

**Methods for Containment**

Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

**Methods for Clean-Up**

Contain and collect with an inert absorbent and place into an appropriate container for disposal. Rinse area with clean water and dry before permitting traffic.

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## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. For industrial and commercial use only. Avoid contact with skin, eyes or clothing.

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

**Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from freezing. Keep out of the reach of children.

**Incompatible Materials**

None known based on information supplied.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Tetraborate (particles not otherwise regulated) 12179-04-3</td>
<td>2mg/m³</td>
<td>Total Dust: 15mg/m³ Respirable Fraction: 5mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>Sodium Citrate (particles not otherwise regulated) 6132-04-3</td>
<td>TWA: 10mg/m³; inhalable particles TWA: 3mg/m³; respirable particles</td>
<td>TWA: 15mg/m³ Total Dust TWA: 5mg/m³ respirable fraction</td>
<td>-</td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

**Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. Eyewash stations. Showers.

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

**Eye/Face Protection**

Eye protection should be used when splashing may occur.

**Skin and Body Protection**

Wear protective gloves when handling this product.

**Respiratory Protection**

Under normal conditions, respirator is not normally required.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on Basic Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Appearance</th>
<th>Color</th>
<th>Odor</th>
<th>Odor Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Clear</td>
<td>Blue</td>
<td>Fresh</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

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10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to Avoid
Keep out of reach of children. Avoid excessive heat. Contact with acids can release carbon dioxide and heat. Contact with lime dust can produce corrosive sodium hydroxide. Keep from freezing.

Incompatible Materials
Avoid contact with reactive metals (e.g. sodium, calcium, zinc, etc.), materials reactive with hydroxyl compounds, copper alloys, alcohols, amines, strong acids, oxidizing agents.

Hazardous Decomposition Products
Thermal decomposition may produce oxides of carbon, aldehydes, and flammable hydrocarbon fragments

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact
Avoid contact with eyes.

Skin Contact
Avoid contact with skin.

Inhalation
Avoid breathing vapors or mists.

Ingestion
Do not taste or swallow.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Surge Bio-Active Laundry Detergent**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol Alkoxylate</td>
<td>1-10 mg/L (120hr)</td>
<td>1-10 mg/L (96hr) Pimephales promelas</td>
<td>-</td>
<td>1-10mg/L (48hr)</td>
</tr>
<tr>
<td>68987-81-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>19000mg/L (72hr)</td>
<td>51400mg/L (96hr) Fathead minnow</td>
<td>-</td>
<td>18340mg/L (48hr) Daphnia</td>
</tr>
<tr>
<td>57-55-6</td>
<td>Algae</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Tetraborate</td>
<td>-</td>
<td>40mg/mL (96hr) Coho salmon (seawater)</td>
<td>-</td>
<td>133mg/L (48hr) Daphnia</td>
</tr>
<tr>
<td>12179-04-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Citrate</td>
<td>&gt;18000mg/L (96hr)</td>
<td>&gt;18000mg/L (96hr) Poecilia reticulate</td>
<td>&gt;1800mg/L (8hr) Pseudomonas fluorescens</td>
<td>&gt;5600mg/L (48hr) Daphnia</td>
</tr>
<tr>
<td>6132-04-3</td>
<td>Chlorella vulgaris</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence/Degradability**
Not expected to persist.

**Bioaccumulation**
Not expected to bioaccumulate.

**Mobility**
Not determined

**Other Adverse Effects**
Not determined

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes**
Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**
Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION**

**Note**
Please see current shipping paper for most up to date shipping information, including
The following ingredients appear on various state right to know lists and/or California’s Proposition 65 List:

<table>
<thead>
<tr>
<th>ID</th>
<th>CAP65</th>
<th>CA</th>
<th>CT</th>
</tr>
</thead>
<tbody>
<tr>
<td>4141</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DOT Not regulated. (NOI Non-Hazardous)

IATA Not regulated.

IMDG Not regulated.

15. REGULATORY INFORMATION

International Inventories
Not determined

Legend:
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECS - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

CERCLA None Listed

SARA 311/312 Hazard Categories
Immediate (Acute) Health.

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)
None known.

US State Regulations
None known

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
The following ingredients appear on various state right to know lists and/or California’s Proposition 65 List:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>State List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene Glycol 57-55-6</td>
<td>PA</td>
</tr>
</tbody>
</table>

AZ- Arizona Ambient Air Quality Guidelines
CT- Connecticut Hazardous Air Pollutants
CA- California Director’s List of Hazardous Substances
CAP65- California Prop65
FL- Florida Substances List
ID- Idaho Non-Carcinogen Toxic Air Pollutants

IL- Illinois Toxic Air Contaminate- Carcinogenic
MA- Massachusetts Right to Know List
MN- Minnesota Hazardous Substances List
NJ- New Jersey Right to Know List
PA- Pennsylvania Right to Know List
RI- Rhode Island Hazardous Substances List

16. OTHER INFORMATION

NFPA

<table>
<thead>
<tr>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

HMIS

<table>
<thead>
<tr>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Special Hazards
Not determined

Personal Protection
Not determined
Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

*Denotes changes from last version.

End of Safety Data Sheet