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Version 1.0

## 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

Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Eye Irritation	Category 2 Sub-category A
Aquatic Toxicity Acute	Category 3

### 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.

**Other Hazards**

None known

**Unknown Acute Toxicity**

None known

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Water	7732-18-5	40-70
Alcohol Alkoxylate	68987-81-5	15-40
Propylene Glycol	57-55-6	5-10
Sodium Tetraborate	12179-04-3	1-5
Sodium Citrate	6132-04-3	1-5

\*\*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**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation develops or persists seek medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	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**Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Water. Foam.**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.

**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**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Tetraborate (particles not otherwise regulated) 12179-04-3	2mg/m <sup>3</sup>	Total Dust: 15mg/m <sup>3</sup> Respirable Fraction: 5mg/m <sup>3</sup>	-
Sodium Citrate (particles not otherwise regulated) 6132-04-3	TWA: 10mg/m <sup>3</sup> - inhalable particles TWA: 3mg/m <sup>3</sup> - respirable particles	TWA: 15mg/m <sup>3</sup> Total Dust TWA: 5mg/m <sup>3</sup> -respirable fraction	-

**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**

Physical State  
Appearance  
Color

Liquid  
Clear  
Blue

Odor  
Odor Threshold

Fresh  
Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH (concentrate)	8.5-9.0	
Melting Point/Freezing Point	Approximately 32°F	
Boiling Point/Boiling Range	Approximately 212°F	
Flash Point	Not applicable	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Liquid-not applicable	
Upper Flammability Limits	Not applicable	
Lower Flammability Limit	Not applicable	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	1.03	
Water Solubility	Completely soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not an explosive	
Oxidizing Properties	Not determined	

## 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

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin.
<b>Inhalation</b>	Avoid breathing vapors or mists.
<b>Ingestion</b>	Do not taste or swallow.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50

Alcohol Alkoxylate 68987-81-5	= 2380-2745 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 50 mg/L (4hr) (Rat)
Propylene Glycol 57-55-6	22000 mg/kg (Rat)	21000 mg/kg (Rabbit)	-
Sodium Tetraborate 12179-04-3	>3200 mg/kg (Rat)	-	-
Sodium Citrate 6132-04-3	>8000 mg/kg (Rat)	-	-

**Information on Physical, Chemical and Toxicological Effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

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

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

**Numerical Measures of Toxicity**

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.

**Component Information**

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

**Persistence/Degradability**

Not expected to persist.

**Bioaccumulation**

Not expected to bioaccumulate.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**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

exemptions and special circumstances.

**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*

*IECSC - 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:

<b>Chemical Name</b>	<b>State List</b>
Propylene Glycol 57-55-6	PA

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 Contaminant- 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**

**Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS**

**Health Hazards**

2

**Flammability**

0

**Physical Hazards**

0

**Personal Protection**

Not determined

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**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**