

Safety Data Sheet

Issue Date 08-Aug-2011 Revision Date: 09-Dec-2019 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
Aguatic 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.

<u>Precautionary Statements – Response</u>

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

Revision Date: 09-Dec-2019

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

Eye ContactRinse 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

Water spray (fog). Carbon dioxide (CO2). 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

Revision Date: 09-Dec-2019

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 MaterialsNone 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/m³	Total Dust: 15mg/m³ Respirable Fraction: 5mg/m³	-
Sodium Citrate (particles not otherwise regulated) 6132-04-3	TWA: 10mg/m³- inhalable particles TWA: 3mg/m³- respirable particles	TWA: 15mg/m³ Total Dust TWA: 5mg/m³-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 Liquid

Appearance Clear Odor Fresh

ColorBlueOdor ThresholdNot determined

Remarks · Method **Property** Values

Revision Date: 09-Dec-2019

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

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

Not determined

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

ſ	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)	-	-

Revision Date: 09-Dec-2019

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 reticulate	>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

Revision Date: 09-Dec-2019

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:

Chemical Name	State List
Propylene Glycol 57-55-6	PA

AZ- Arizona Ambient Air Quality Guidelines IL- Illinois Toxic Air Contaminate- Carcinogenic

CT- Connecticut Hazardous Air Pollutants

MA- Massachusetts Right to Know List

CA- California Director's List of Hazardous Substances

MN- Minnesota Hazardous Substances List

CAP65- California Prop65 NJ- New Jersey Right to Know List

FL- Florida Substances List PA- Pennsylvania Right to Know List

ID- Idaho Non-Carcinogen Toxic Air Pollutants

RI- Rhode Island Hazardous Substances List

16. OTHER INFORMATION

Special Hazards NFPA **Health Hazards** Flammability Instability Not determined Not determined Not determined Not determined **Personal Protection** HMIS **Health Hazards** Flammability **Physical Hazards** Not determined 2 0 0

414100 - Surge Bio-Active Laundry Detergent Revision Date: 09-Dec-2019

 Issue Date
 08-Aug-2011

 Revision Date:
 09-Dec-2019

Revision Note Update format Version 1.0

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.

End of Safety Data Sheet

^{*}Denotes changes from last version.