1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name: Bio Clean

Other means of identification

Product Code(s): 5000

Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended Use: Sanitizer

Uses advised against: No information available

Supplier’s details

Supplier Address:
Sunburst Chemicals, Inc.
220 W. 86th St.
Bloomington, MN 55420
TEL: 952-884-3144

Emergency Telephone Number: 1-866-303-6943

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

PRODUCT AS SOLD

Acute Toxicity Oral and Skin: Category 3
Skin Corrosion/Irritation: Category 1B
Serious Eye Damage/Eye Irritation: Category 1

PRODUCT AT USE DILUTION

Acute Toxicity Oral: Category 4

GHS Label elements, including precautionary statements

Emergency Overview

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Statements</td>
<td></td>
</tr>
<tr>
<td>• Harmful if in contact with skin or if swallowed.</td>
<td></td>
</tr>
<tr>
<td>• Causes severe skin burns and eye damage</td>
<td></td>
</tr>
</tbody>
</table>
Appearance | Yellow
Physical State | Solid
Odor | Lemon

Precautionary Statements

Prevention
• Wear protective gloves / protective clothing / eye protection / face protection
• Wash face, hands, and any exposed skin thoroughly after handling

General Advice
• IF exposed or concerned: Get medical attention/advice

Eyes
• 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.

Skin
• IF ON SKIN: Wash with plenty of soap and water
• Take off contaminated clothing and wash before reuse
• If skin irritation occurs: Get medical advice/attention
• Call a POISON CENTER or a doctor/physician if you feel unwell

Inhalation
• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Ingestion
• IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
• Rinse mouth
• Do NOT induce vomiting.

Storage
• Store locked up

Disposal
• Dispose of contents/container to an approved waste disposal plant

GHS Label elements, including precautionary statements

PRODUCT AT USE DILUTION

Signal Word
Warning

Hazard Statements
• Harmful if swallowed

Emergency Overview

Appearance | Yellow
Physical State | Liquid
Odor | None
Precautionary Statements

Prevention
• Wear protective gloves / protective clothing / eye protection / face protection
• Wash face, hands and exposed skin thoroughly after handling.

General Advice
• IF exposed or concerned: Get medical attention/advice

Eyes
• 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.

Skin
• IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.
• Wash contaminated clothing before reuse
• If skin irritation occurs: Get medical advice / attention

Inhalation
• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
• Call a POISON CENTER or doctor / physician if you feel unwell.

Fire
• In case of fire: Use CO2, dry chemical, or foam for extinction.

Storage
• Store locked up. Keep out of reach of children.

Disposal
• Dispose of contents/container to an approved waste disposal plant

Hazard Not Otherwise Classified (HNOC)

Other information
No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT AS SOLD

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Sulfate</td>
<td>7757-82-4</td>
<td>30 - 50 %</td>
<td>*</td>
</tr>
<tr>
<td>Urea</td>
<td>57-13-6</td>
<td>10 - 30%</td>
<td>*</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-14-alky[(ethylphenyl)methyl]dimethyl, chlorides</td>
<td>85409-23-0</td>
<td>5 - 10%</td>
<td>*</td>
</tr>
<tr>
<td>Alkylbenzyldimethylammonium chloride</td>
<td>68391-01-5</td>
<td>5 - 10%</td>
<td>*</td>
</tr>
<tr>
<td>alcohols, c12-15, ethoxylated</td>
<td>68131-39-5</td>
<td>5 – 10%</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.*

PRODUCT AT USE DILUTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Sulfate</td>
<td>7757-82-4</td>
<td>0.12 – 0.39%</td>
<td>*</td>
</tr>
<tr>
<td>Urea</td>
<td>57-13-6</td>
<td>0.04 – 0.23%</td>
<td>*</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-14-alky[(ethylphenyl)methyl]dimethyl, chlorides</td>
<td>85409-23-0</td>
<td>0.02 – 0.08%</td>
<td>*</td>
</tr>
<tr>
<td>Alkylbenzyldimethylammonium chloride</td>
<td>68391-01-5</td>
<td>0.02 – 0.08%</td>
<td>*</td>
</tr>
<tr>
<td>alcohols, c12-15, ethoxylated</td>
<td>68131-39-5</td>
<td>0.02 – 0.08%</td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

PRODUCT AS SOLD

Description of necessary first-aid measures
General Advice
Immediate medical attention is required

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

Skin Contact
Wash skin and soap water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation persists.

Inhalation
Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion
Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects
Irritation, burning sensation

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician
Probable mucosal damage may contraindicate use of gastric lavage.

PRODUCT AT USE DILUTION

Eye Contact
Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Using a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Ingestion
Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Inhalation
Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Carbon dioxide (CO₂). Dry chemical. Water. Keep containers and surroundings cool with water spray.

Unsuitable Extinguishing Media
None

Specific Hazards Arising from the Chemical
No information available

Explosion Data
Sensitivity to Mechanical Impact
None

Sensitivity to Static Discharge
None

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

PRODUCT AS SOLD
Personal precautions, protective equipment and emergency procedures
Personal Precautions
Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment. High risk of slipping due to leakage/spillage of product.

Environmental Precautions

Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up
Absorb spilled material with an absorbent material such as clay, sawdust, or sand. Flush area with flooding quantities of water.

PRODUCT AT USE DILUTION
Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personal only. Refer to protective measure listed in section 7 and 8.

Methods for Containment and cleaning up

Environmental Precautions
Do not allow contact with soil, surface or ground water

Methods and materials for containment and cleaning up
Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise material to ensure runoff does not reach a waterway.

7. HANDLING AND STORAGE

PRODUCT AS SOLD
Precautions for safe handling
Handling
Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities
Storage
Keep container tightly closed. Keep container closed when not in use. Keep out of the reach of children.

Incompatible Products

PRODUCT AT USE DILUTION
Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe mist. Wash hands thoroughly after handling.

Advice on safe handling
Conditions for safe storage
Keep out of reach of children. Store in suitable labeled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures
Eyewash Stations

Individual protection measures, such as personal protective equipment
Eye/Face Protection
Tightly fitting safety gloves.

Skin and Body Protection
Rubber gloves. Rubber apron.

Respiratory Protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures
Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 PRODUCT AS SOLD
Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values for Product as Sold</th>
<th>Values for Product at Use Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
<td>Appearance</td>
</tr>
<tr>
<td>Odor</td>
<td>Lemon</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
<td></td>
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<tr>
<td>pH</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Range</td>
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<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
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<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper flammability limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>lower flammability limit</td>
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<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
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<td></td>
</tr>
<tr>
<td>Vapor Density</td>
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<td></td>
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<tr>
<td>Relative Density</td>
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<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
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<td></td>
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<tr>
<td>Water Solubility</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
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</tr>
<tr>
<td>Autoignition Temperature</td>
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<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
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<td></td>
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<tr>
<td>Flammable Properties</td>
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<td>Explosive Properties</td>
<td>Not explosive</td>
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</tr>
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<td>Oxidizing Properties</td>
<td>Not an oxidizer</td>
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<tr>
<td>Other information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>0%</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
No data available.
Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to avoid
None

Incompatible materials
None

Hazardous decomposition products
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

PRODUCT AS SOLD
Information on likely routes of exposure

Product Information:
- Eye Contact: Contact with eyes may cause irritation.
- Skin Contact: Irritation to skin
- Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea.

PRODUCT AT USE DILUTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C12-15, ethoxylated</td>
<td>= 1830 mg/kg (Rat)</td>
<td>= 2480 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Quaternary Ammonium Chloride</td>
<td>= 344 mg/kg (Rat)</td>
<td>= 3340 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
- Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization
- No information available.

Mutagenic Effects
- No information available.

Carcinogenicity
- Not carcinogenic

Reproductive Toxicity
- No information available.

STOT - single exposure
- No information available.

STOT - repeated exposure
- No information available.

Aspiration Hazard
- No information available.

Numerical measures of toxicity - - Product

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral
- No information available.

LD50 Dermal
- No information available.

Inhalation
- No information available.

Vapor
- No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
- Toxic to aquatic life
Chemical Name  | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea)
--- | --- | --- | --- | ---
Alcohols, C14-15, ethoxylated  | EC50 96h: = 0.95 mg/L  | LC50 96 h: = 0.9 mg/L static (Oncorhynchus Mykiss)  | EC50 48 h: =0.25 mg/L (Daphnia magna)  |

Persistence and Degradability
No information available.
Bioaccumulation
No information available.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

PRODUCT AS SOLD

**Waste Disposal Methods**
Dispose of in accordance with federal, state, and local regulations.

**Contaminated Packaging**
Dispose of in accordance with federal, state, and local regulations.

PRODUCT AT USE DILUTION

**Waste Disposal Methods**
Dispose of in accordance of the federal, state, local regulations.

**Contaminated Packaging**
Dispose of in accordance of the federal, state, local regulations.

14. TRANSPORT INFORMATION

**DOT**
Not regulated.

15. REGULATORY INFORMATION

**International Inventories**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
</tbody>
</table>

**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 Commercial Chemical Substances/EU List of Notified Chemical Substances

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide lay. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.com The hazard information required on the pesticide label is reproduced in Section 2, Hazards Information, of this Safety Data Sheet. The pesticide label also includes other important information, including direction for use.

**PRODUCT AS SOLD**

**SARA 311/312 Hazard Categories**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

**PRODUCT AT USE DILUTION**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>
Clean Water Act
This product contains no substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, contains no substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

U.S. State Regulations

California Proposition 65
This product contains no Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
None

U.S. EPA Label Information

EPA Pesticide Registration Number
670 - 2

16. OTHER INFORMATION

NFPA

Health Hazard 3  Flammability 0  Instability 0  Physical and Chemical Hazards - 1

HMIS

Health Hazard 3  Flammability 0  Physical Hazard 0  Personal Protection

Prepared By
Sunburst Chemicals
220 W. 86th Street
Bloomington, MN 55420
952-884-3144

Issuing Date
24-Apr-2015
Revision Date
25-May-2016
Revision Note
Update

General Disclaimer
The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet