1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: HydroBrite.
Product code: 8312
CAS No.: Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s): Peroxide Cleaner Additive to increase surface brightening.
Uses Advised Against: None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer
Company Identification: Fiberlock Technologies, Inc.
Address of Manufacturer: 150 Dascomb Road
Andover, MA 01810
USA.
Postal code: 01810
Telephone: 800-342-3755
Fax: (978) 475-6205
E-mail: r.child@calprocorp.com
Office hours: 8 am to 5 pm EST

1.4 Emergency telephone number

Emergency Phone No.: CHEM TEL: 813-248-0585 (24 hour(s)).

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 US CFR 1910.1200

Eye Dam. 1: Causes serious eye damage.
Skin Corr. 1B: Causes severe skin burns and eye damage.

2.2 Label elements

Product Name: HydroBrite.

Hazard Pictogram(s)

GHS05

Signal Word(s): Danger.
Hazard Statement(s)  
H314: Causes severe skin burns and eye damage.

Precautionary Statement(s)  
P260: Do not breathe dust.  
P264: Wash hands and exposed skin thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER/doctor.

2.3 Other hazards  
None known.

2.4 Additional Information  
For full text of H/P Statements see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances  
Not applicable.

3.2 Mixtures

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENT(S)</th>
<th>CAS No.</th>
<th>% WW</th>
<th>Hazard Statement(s)</th>
<th>Hazard Pictogram(s)</th>
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</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>50 - 60</td>
<td>Eye Irrit. 2 H319</td>
<td>GHS07</td>
</tr>
<tr>
<td>Disodium disilicate</td>
<td>13870-28-5</td>
<td>30-40</td>
<td>Eye Dam. 1 H318</td>
<td>GHS05</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>&lt;5</td>
<td>Skin Corr. 1A H314</td>
<td>GHS05</td>
</tr>
</tbody>
</table>
| Sodium dodecyl sulphate | 151-21-3 | 1-5 | Flam. Sol. 2 H228  
Acute Tox. 4 H302  
Skin Irrit. 2 H315  
Eye Dam. 1 H318  
Acute Tox. 4 H332  
STOT SE 3 H335 | GHS02  
GHS05  
GHS07 |

For full text of H/P Statements see section 16.

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation  
Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

Skin Contact  
Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor.

Eye Contact  
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Ingestion
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed
Causes burns.

4.3 Indication of any immediate medical attention and special treatment needed
Immediately call a POISON CENTER/doctor. Treat symptomatically.

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable Extinguishing media Use CO2, dry chemical, or foam.
Unsuitable extinguishing media Do not use water jet.

5.2 Special hazards arising from the substance or mixture
May decompose in a fire giving off toxic fumes.

5.3 Advice for firefighters
Firefighters should wear complete protective clothing including self-contained breathing apparatus.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Provide adequate ventilation. Avoid dust generation. Do not breathe dust. Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions
Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up
Sweep spilled substances into containers if appropriate moisten first to prevent dusting.

6.4 Reference to other sections
See Also Section 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Provide adequate ventilation. Avoid dust generation. Avoid contact with skin and eyes. Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands and exposed skin thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities
Keep container in a well-ventilated place. Store locked up.

Storage temperature Ambient.
Storage life Stable under normal conditions.
Incompatible materials Strong oxidising agents.
### 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td></td>
<td>2</td>
<td></td>
<td>2(1)</td>
<td>NIOSH</td>
</tr>
</tbody>
</table>

OSHA = Occupational Safety and Health Administration  
NIOSH = National Institute of Occupational Safety and Health  
(1) Ceiling limit value

#### 8.2 Appropriate engineering controls

Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

#### 8.3 Personal protection equipment

- **Eye Protection**  
  Wear eye/face protection.

- **Skin protection**  
  Wear protective clothing and gloves: Impervious gloves.

- **Respiratory protection**  
  In case of insufficient ventilation, wear suitable respiratory equipment.

#### Thermal hazards

None known.

### 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

- **Appearance**  
  Solid.
  Colour: White.

- **Odor**  
  Odorless.

- **Odor threshold**  
  Not known.

- **pH**  
  12.5

- **Melting point/freezing point**  
  Not known.

- **Initial boiling point and boiling range**  
  Not applicable.

- **Flash Point**  
  Not applicable.

- **Evaporation rate**  
  Not known.

- **Flammability (solid, gas)**  
  Not known.

- **Upper/lower flammability or explosive limits**  
  Not known.

- **Vapor pressure**  
  Not known.

- **Vapor density**  
  Not known.

- **Density (g/ml)**  
  Not known.
Relative density
Not known.

Solubility(ies)
Solubility (Water) : Not known.
Solubility (Other) : Not known.

Partition coefficient: n-octanol/water
Not known.

Auto-ignition temperature
Not known.

Decomposition Temperature (°C)
Not known.

Viscosity
Not known.

Explosive properties
Not explosive.

Oxidizing properties
Not oxidizing.

9.2 Other information
None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
None anticipated.

10.2 Chemical Stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid
None known.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products
No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion
Low oral toxicity.

Acute toxicity - Skin Contact
Low acute toxicity.

Acute toxicity - Inhalation
Low acute toxicity.

Skin corrosion/irritation
Causes severe skin burns and eye damage.

Serious eye damage/irritation
Causes serious eye damage.

Respiratory/skin sensitization
It is not a skin sensitiser.

Germ cell mutagenicity
There is no evidence of mutagenic potential.

Carcinogenicity
No evidence of carcinogenicity.

Reproductive toxicity
None anticipated.
STOT - single exposure
Not classified.

STOT - repeated exposure
None anticipated.

Aspiration hazard
Not classified.

11.2 Other information
Not known.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity - Aquatic invertebrates
Low toxicity to invertebrates.

Toxicity - Fish
Low toxicity to fish.

Toxicity - Algae
Low toxicity to algae.

Toxicity - Sediment Compartment
Not classified.

Toxicity - Terrestrial Compartment
Not classified.

12.2. Persistence and Degradation
No information available.

12.3. Bioaccumulative potential
No information available.

12.4. Mobility in soil
Not known.

12.5 Other adverse effects
Not known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Dispose of contents in accordance with local, state or national legislation.

13.2 Additional Information
None.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number
UN No. 3262

14.2 UN proper shipping name
CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide)

14.3 Transport hazard class(es)
ADR/RID Class 8
IMDG Class 8
IMDG EMS F-A,S-B
ICAO/IATA
Excepted Quantities E1
Passenger and Cargo Aircraft Packing Instructions 864
Passenger and Cargo Aircraft Max net Qty 100 Kg
Passenger and Cargo Aircraft Packing Instructions 860
Passenger and Cargo Aircraft Max net Qty 25Kg
Cargo Aircraft Packing Instructions Y845
Cargo Aircraft Max net Qty 5Kg
Special Provisions Not available.
Emergency Response Guidebook (ERG) Code 8L
ADR Classification Code C6
ADR HIN 80
ADR Transport Category 3
Tunnel Restriction Code E
Emergency Action Code Not available.
APP Advice on Additional Personal Protection (APP) Not applicable
14.4 Packing group
Packing group III
Labels 8

Special Provisions 223 274
Limited Quantities 5 Kg
Excepted Quantities E1
Mixed Packing Instructions for Packages P002 IBC08 LP02
Special Packing Provisions for Packages B3
Mixed Packing Instructions for Packages MP10
14.5 Environmental hazards
Environmental hazards Not known.
14.6 Special precautions for user
Special precautions for user Not known.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Packing Instructions for Portable Tanks T1
Special Provisions for Portable Tanks TP33
Tank Code for Tanks SGAV L4BN
Special Provisions for Tanks Not applicable
Vehicle for Tank Carriage AT
Special Provisions for Carriage - Packages Not applicable
Special Provisions for Carriage - Bulk: VV9
Special Provisions for Carriage - Loading, Unloading and Handling: Not applicable
Special Provisions for Carriage - Operation: Not applicable

15. SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations
Toxic and hazardous substances (29 CFR 1910; Subpart Z): All chemicals are not listed.
National emission standards for hazardous air pollutants (40 CFR 61.01): All chemicals are not listed.
Title III Consolidated List of Lists: Listed in: Sodium hydroxide caustic soda (CAS No.: 1310-73-2)
CERCLA (Comprehensive Environmental Response Compensation and Liability Act): 1000
OSPAR List of Chemicals for Priority Action: All chemicals are not listed.
TSCA (Toxic Substance Control Act): All chemicals listed.
CA 602 - Ozone Depleting Substances (ODS): All chemicals are not listed.

15.2 US State Regulations
State Right to Know Lists:
- New Jersey: Listed in: Sodium hydroxide (CAS No.: 1310-73-2)
- Pennsylvania: Listed in: Sodium hydroxide (CAS No.: 1310-73-2)
- Rhode Island: Listed in: Sodium hydroxide (CAS No.: 1310-73-2)
- Minnesota: Listed in: Sodium hydroxide (CAS No.: 1310-73-2)

Proposition 65 (California): All chemicals are not listed.

15.3 Other
OSPAR List of Chemicals for Priority Action: All chemicals are not listed.
NTP (National Toxicology Program): All chemicals are not listed.
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives): All chemicals are not listed.
IARC (International Agency for Research on Cancer): All chemicals are not listed.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions 1-16.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>3</td>
</tr>
<tr>
<td>Fire</td>
<td>0</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
</tr>
</tbody>
</table>
LEGEND

LTEL  Long Term Exposure Limit
STEL  Short Term Exposure Limit
Acute Tox. 4  Acute toxicity Category 4
Eye Dam. 1  Serious eye damage/irritation Category 1
Eye Irrit. 2  Serious eye damage/irritation Category 2
STOT SE 3  Specific target organ toxicity — single exposure Category 3
Skin Corr. 1A  Skin corrosion/irritation Category 1A
Skin Corr. 1B  Skin corrosion/irritation Category 1B
Flam. Sol. 2  Flammable solid Category 2
Skin Irrit. 2  Skin corrosion/irritation Category 2

Hazard Statement(s)
H228: Flammable solid.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P363: Wash contaminated clothing before reuse.
P405: Store locked up.
P501: Dispose of contents in accordance with local, state or national legislation.

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