SAFETY DATA SHEET
Date Revised: January 23, 2019

1. PRODUCT AND COMPANY IDENTIFICATION

   **Product Name:** EvaGreen™, 20X in water
   **Catalog Number:** 31000
   **Unit Size:** 5 X 1mL
   **Manufacturer/Supplier:** Biotium, Inc.
   46117 Landing Parkway, Fremont, CA 94538, USA
   Phone: 1-510-265-1027, Fax: 1-510-265-1352
   Web: [http://www.biotium.com](http://www.biotium.com)

2. HAZARDS IDENTIFICATION

   **Classification according to Regulation (EC) No 1272/2008[CLP]**
   None
   **Classification according to Directive 1999/45/EC**
   None
   **Labeling according to Regulation (EC) No 1272/2008[CLP]**
   **Hazard pictogram** None
   **Signal word** None
   **Hazard statements** None
   **Precautionary statements** None
   **WHMIS classification** None
   **HMIS Classification**
   Health hazard: 0
   Flammability: 0
   Physical hazards: 0
   **NFPA Rating**
   Health hazard: 0
   Fire: 0
   Reactivity Hazard: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Index No.</th>
<th>Weight %</th>
<th>Classification according to 67/548/EEC</th>
<th>Classification according to regulation (EC)No1278/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>-</td>
<td>&gt;99%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>EvaGreen dye</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>&lt;0.1%</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

4. FIRST- AID MEASURES

   **General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**
Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**
Flush eyes with water as a precaution.

**If swallowed**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5.  FIREFIGHTING MEASURES

**Suitable extinguishing media**
Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

**Special protective equipment for firefighters**
Wear self contained breathing apparatus for firefighting if necessary.

### 6.  ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Avoid breathing vapors, mist or gas. Remove all sources of ignition.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**
Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

### 7.  HANDLING AND STORAGE

**Precautions for safe handling**
Avoid inhalation of vapor or mist. Avoid direct contact with substance.

**Conditions for safe storage**
Keep container tightly closed in a dry and well-ventilated place. Store at -20°C. Avoid long-term light exposure.

### 8.  EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**
- **Substance**: EvaGreen™, 20X in water
- **Control parameter**: No information available

**Personal protective equipment**
**Hand protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Respiratory protection
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection
Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EvaGreen™, 20X in water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light orange liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>Neutral</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporate rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No data available

Conditions to avoid
Heat, flames and sparks.

(Materials to avoid)
No data available

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available

12. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD50 None
**Inhalation LC50**  
Toxicity data: LC₅₀>750mg/L. Acute toxicity test, fathead minnows, 96 hour exposure, 100% survival

**Dermal LD50**  
None

**Other information on acute toxicity**  
no data available

**Skin corrosion/irritation**  
no data available

**Serious eye damage/eye irritation**  
no data available

**Respiratory or skin sensitization**  
no data available

**Germ cell mutagenicity**

**Bacterial Reverse Mutation Screening Assay (Ames assay):** Negative with or without S9 metabolic activation on two histidine dependent Salmonella typhimurium strains (TA98 and TA1537)

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**  
no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**  
no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**  
no data available

**Aspiration hazard**  
no data available

**Potential health effects**

**Inhalation**  
May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion**  
May be harmful if swallowed.

**Skin**  
May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**  
May cause eye irritation.

**Additional Information**

RTECS: None

13. ECOLOGICAL INFORMATION

**Toxicity**

**Ecotoxicity effects:**  
Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

**Aquatic toxicity:**  
Test organism: Fathead minnow  
Test method: EPA600/4-85/013  
Result: Not hazardous or toxic to aquatic life according to CCR Title 22 Hazardous Waste Characterization guidelines

**Persistence and degradability**  
no information available

**Biodegradation**  
no information available

**Mobility in soil**  
no information available

**Results of PBT and vPvB assessment**  
no information available
14. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

15. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>IATA, IMDG, DOT(US)</th>
<th>not dangerous good during transportation</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>none</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>none</td>
</tr>
<tr>
<td>Transport hazard class</td>
<td>none</td>
</tr>
<tr>
<td>Packing group</td>
<td>none</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>none</td>
</tr>
<tr>
<td>Special precaution for user</td>
<td>none</td>
</tr>
</tbody>
</table>

16. REGULATION INFORMATION

US Federal Regulations
Us Toxic Substances Control Act (TSCA): Not listed
SARA 302: No chemicals were found.
SARA 313: No chemicals were found.
SARA 311/312 Hazards: No chemicals were found.

WHMIS Hazard Class None

17. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Prepared by: Regulatory Department
             Biotium Inc.
Version no. 3
Reason for revision Update storage temperature

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.