SECTION 1: Identification of the substance or mixture and of the supplier

GHS Product Identifier: TMB One Component Microwell Substrate, Solution
Other means of identification: N/A
Product type: Liquid
Product code: 0410-01(L)
Chemical formula: Not applicable
CAS No: Not applicable
SDS No: 2230838

Relevant Identified uses of the substance or mixture and uses advised against: For laboratory use

Supplier's details: Southern Biotechnology Associates, Inc.
160 Oxmoor Boulevard
Birmingham, Alabama 35209 USA
Tel: (205) 945-1774
Fax: (205) 945-8768
Website: www.southernbiotech.com

Distributor and Emergency Phone No.: Refer to website for distributor and emergency phone numbers.
Tel: (205) 945-1774

SECTION 2: Hazards identification

Classification of the substance or mixture
GHS-US classification: Not a hazardous substance or mixture

Label elements
GHS-US labeling
Hazard pictograms (GHS-US): Not a hazardous substance or mixture

Other hazards: none

Unknown acute toxicity (GHS US): No data available

Full text of H-phrases: see section 16

SECTION 3: Composition/information on ingredients

Substance/Mixture: Mixture
Other Means of Identification: N/A
CAS Number/other identifiers:
CAS Number:

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Product Identifier</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.
SECTION 4: First aid measures

Description of first aid measures

First-aid measures general
If exposed or concerned, get medical attention/advice. Do not leave the victim unattended. Never give anything by mouth to an unconscious person. Wash contaminated clothing before re-use.

First-aid measures after eye contact
Immediately flush eye(s) with plenty of water for at least 15 minutes. Remove contact lenses. Protect unharmed eye. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after inhalation
Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.

First-aid measures after skin contact
If on skin, remove affected clothing and wash all exposed skin with soap and water for at least 15 minutes. If irritation persists, call a physician.

First-aid measures after ingestion
Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. If you feel unwell, get medical advice/attention.

Most important symptoms and effects, acute and delayed

Potential acute health effects
Eye contact May cause temporary irritation
Inhalation May cause respiratory irritation
Skin contact May cause skin irritation
Ingestion May cause gastrointestinal irritation

Over-exposure signs/symptoms
Eye contact No specific data
Inhalation No specific data
Skin contact No specific data
Ingestion No specific data

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

Notes to physician The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
Specific treatments No data available
Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

SECTION 5: Firefighting measures

Extinguishing media


Unsuitable extinguishing media None known

Special hazards arising from the substance or mixture Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Hazardous thermal decomposition products No specific data

Further Information
Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

Special protective equipment for fire-fighters Wear self-contained breathing apparatus for firefighting if necessary.
SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures: Use universal precautions during clean up procedures. Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear, see section 8.

For non-emergency personnel
For personal protection see section 8. Evacuate unnecessary personnel.

For emergency responders
Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

Environmental precautions
Do not let product enter drains. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

Methods and material for containment and cleaning up

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

Reference to other sections
See Section 1 for emergency contact information, Section 13 for waste disposal, and Section 8 for exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Keep away from sources of ignition - No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Technical measures: Keep the container tightly closed. Store in a dry, cool and well-ventilated place. Store away from light. Avoid elevated temperatures.

Recommended storage temperature: 2-8°C

Light sensitive.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure controls
Appropriate engineering controls
Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Environmental exposure controls
Do no let product enter drains.

Personal protective equipment
Protective goggles, gloves
Hand protection
Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Body protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Other skin protection
Wear suitable protective clothing. Wear long sleeves

Eye protection
Chemical goggles or safety glasses

Respiratory protection
Where excessive vapor, mist, or dust may result, use NIOSH approved respiratory protection equipment.

Conditions to avoid
No specific data
Incompatible materials
No specific data
Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
When using, do not eat, drink, or smoke.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance
Physical state : Liquid
Color : Colorless to pale yellow
Odor : Not available
Odor threshold : Not available
pH : 3.3 – 3.8
Melting point : Not available
Boiling point : Not available
Flash Point : Not applicable
 Burning time : Not applicable
 Burning rate : Not applicable
Evaporation rate : Not available
Flammability (solid, gas) : Not available
Lower and upper explosive (flammable) limits : Not available
Vapor pressure : Not available
Vapor density : Not available
Relative density : 1.01 (H2O = 1.0)
Solubility : Soluble in the following materials: cold water and hot water.

Partition coefficient n-octanol/water : Not available
Auto-ignition temperature : Not available
 Decomposition temperature : Not available
SADT : Not available
Viscosity : Not available
Molecular Weight : 301.25 g/mol

Other information
No additional information available
SECTION 10: Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical Stability: The product is stable under recommended storage conditions.

Possibility Of Hazardous Reactions: No data available

Conditions To Avoid: Moisture. Elevated temperatures. Light.


Hazardous Decomposition Products: Hazardous fumes of nitrous oxides (NOx) and carbon oxides.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity: No data available

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

Skin corrosion/irritation: Not classified
pH: 3.3 – 3.8

Serious eye damage/irritation: Not classified
pH: 3.3 – 3.8

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

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

Teratogenicity: No data available

Specific target organ toxicity (single exposure): No data available

Specific target organ toxicity (repeated exposure): No data available

Aspiration hazard: No data available

Symptoms/injuries after inhalation: May cause respiratory irritation.
Symptoms/injuries after skin contact: May cause skin irritation.
Symptoms/injuries after eye contact: May cause slight temporary irritation
Symptoms/injuries after ingestion: May cause gastrointestinal irritation.
Chronic symptoms: No data available.

Additional Information: RTECS: Not available.

SECTION 12: Ecological information

Toxicity: No data available

Persistence and degradability: No data available
Bioaccumulative potential  
No data available  

Mobility in soil  
No data available  

Results of PBT and vPvB assessment  
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  

Other adverse effects  
No data available  

SECTION 13: Disposal considerations  

Waste treatment methods  
Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.  
Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.  

Contaminated packaging  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  

SECTION 14: Transport information  

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
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<tr>
<td>UN proper</td>
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<tr>
<td>Transport hazard class(es)</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
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</tr>
<tr>
<td>Environmental hazards</td>
<td>No</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
</tr>
</tbody>
</table>

Special precautions for user: Transport within users premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.  

SECTION 15: Regulatory information  

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory  
California Proposition 65  
This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm  

Canada inventory  
No additional information available.  

Inventories  
AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)
SECTION 16: Other information

Indication of changes : 30-Apr-15
Other information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

NFPA health : 0 - No unusual hazard
NFPA fire hazard : 0 - Not combustible
NFPA reactivity : 0 - Not reactive when mixed with water

HMIS III Rating
Health : 0 - Minimal Hazard
Flammability : 0 - Minimal Hazard
Physical : 0 - Minimal Hazard

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