1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureBlue Reserve™ TMB Microwell Peroxidase Substrate</td>
<td>SPL-SBR</td>
</tr>
<tr>
<td>SureBlue Reserve™ TMB Microwell Peroxidase Substrate</td>
<td>53-00-04</td>
</tr>
<tr>
<td>SureBlue Reserve™ TMB Microwell Peroxidase Substrate</td>
<td>53-00-03</td>
</tr>
<tr>
<td>SureBlue Reserve™ TMB Microwell Peroxidase Substrate</td>
<td>53-00-02</td>
</tr>
<tr>
<td>SureBlue Reserve™ TMB Microwell Peroxidase Substrate</td>
<td>53-00-01</td>
</tr>
<tr>
<td>SureBlue Reserve™ TMB Microwell Peroxidase Substrate</td>
<td>53-00-00</td>
</tr>
<tr>
<td>SureBlue Reserve™ TMB Microwell Peroxidase Substrate</td>
<td>37-01-48</td>
</tr>
</tbody>
</table>

Hazardous Reagent: SureBlue Reserve™ TMB Microwell Peroxidase Substrate

Hazardous Reagent Product code: Catalog No. listed above

Recommended Use: Reagent

Contact Manufacturer: KPL, Inc.
910 Clopper Road
Gaithersburg, Maryland 20878
USA

Phone #: 1-301-948-7755
Fax #: 1-301-948-0169
Web: www.kpl.com
Email: kplmsds@seracare.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER
Phone: 13 11 26
Hours: 24 hours

CANADIAN TRANSPORT EMERGENCY CENTER
Phone: (1) 613 996 6666
Hours: 24 hours/day, 7 days/week

UK – THE NATIONAL FOCUS
Phone: (44) 029 2041 6388
Hours: 09:00-17:00 GMT

USA - NATIONAL RESPONSE CENTER
Phone: (1) 800 424 8802
Hours: 24 hours/day, 7 days/week
SureBlue Reserve™ TMB Microwell Peroxidase Substrate (1-Component)

2. HAZARD IDENTIFICATION

Hazard Type
EMERGENCY OVERVIEW:
WARNING! MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
Based on percentages of hazardous ingredients in this product, this product is not classified as
“dangerous” under EU Directives (67/548/EEC and 1999/45/EC) or hazardous under US OSHA

Principle Route of Exposure
Avoid contact with skin; avoid ingestion.

Acute Effects: Eye:
May cause eye irritation.

Acute Effects: Skin:
May be harmful if absorbed through the skin. May cause skin irritation.

Acute Effects: Inhalation:
May be harmful if inhaled. May cause respiratory tract irritation.

Acute Effects: Ingestion:
May be harmful if swallowed.

Chronic Effects:
Not Applicable

Additional Information
The product contains no substances which at their given concentration, are considered to be
hazardous to health

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CHEMICAL</th>
<th>% Weight</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureBlue Reserve™ TMB Microwell Peroxidase Substrate (1-Component)</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine) Proprietary formulation; no other hazardous components above 1% or carcinogens above 0.1%</td>
<td>≤0.075% w/v &lt;20% Proprietary</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>54827-17-7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GHS Classification
EC# : 259-364-6 | CAS# : 54827-17-7 | Substance Name : 3,3',5,5'-tetramethylbenzidine | Molecular Formula : C16H20N2 - Not Classified

4. FIRST AID MEASURES

General Advice
Wash contaminated clothing before reuse. Consult a physician if irritation persists.

Oral Exposure
If swallowed, consult with medical staff or poison control center to determine if any immediate response or follow-up actions are recommended. Never give anything by mouth to an unconscious person.

Inhalation Exposure
If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

Skin Exposure
In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if irritation develops.

Eye Exposure
In case of contact, wash eyes immediately with large amounts of water or normal
saline for at least 15 minutes, lifting the upper and lower lids to assure adequate
flushing. Seek medical attention if irritation develops.

5. FIRE FIGHTING MEASURES

Extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unusual Fire and Explosive Hazards: None

Flash Point: Not Available

Autoignition Temperature: Not Applicable

Flammability Statement: Not Applicable

Specific hazards arising from the chemical: Toxic gases and vapors may be released if involved in a fire.

Protective equipment and precautions for firefighters: Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment as specified in Section 8.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Should not be released into the environment.

Method of Containment: Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not flush to sewer!

Methods of Clean-up: Clean up of spills requires no special equipment or procedures. Clean with copious amounts of water.

Other Information: Not Applicable

7. HANDLING AND STORAGE

Handling: Wear appropriate PPE. Refer to section 8.

Storage: Store at 2 – 8°C. Keep lid closed tightly; protect from light and elevated temperatures.

8. EXPOSURE CONTROL

Respiratory Protection: None required if good ventilation is maintained. Otherwise wear MSHA/NIDSH approved respirator suitable for vapor or mist concentrations encountered.

Eye Protection: Safety spectacles.

Skin Protection: Protective gloves. Rubber or vinyl gloves are recommended. Protective clothing.

Ingestion: Do not eat, drink, or smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES
### 10. STABILITY AND REACTIVITY

- **Chemical Stability**: Chemically stable under ordinary conditions of use and storage.
- **Conditions to avoid**: Light, elevated temperatures and moisture.
- **Incompatibility Materials to Avoid**: Strong oxidizing agents and metals.
- **Hazardous Decomposition Products**: Toxic fumes of carbon oxides (CO, CO2) and nitrogen oxide.
- **Hazardous Polymerization**: Will not occur
- **Possibility of hazardous reactions**: Not Available

### 11. TOXICOLOGY MEASURES

#### Acute Toxicity

The toxicological properties of this material have not been investigated.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral</td>
<td>Not Available</td>
</tr>
<tr>
<td>LD50 Dermal</td>
<td>Not Available</td>
</tr>
<tr>
<td>LC50 Inhalation</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

#### Chronic Toxicity

- **Carcinogenicity**: No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

#### Irritation

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosivity</td>
<td>Not Available</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Not Available</td>
</tr>
</tbody>
</table>
Neurological Effects  Not Available
Mutagenic Effects  Not Available
Reproductive Effects  Not Available
Developmental Effects  Not Available
Target Organ Effects  Not Available
Other adverse effects  Not Available

12. ECOLOGICAL MEASURES

Ecotoxicity  Not Available
Persistence/Degradability  Not Available
Mobility in Environmental Media  Not Available
Bioaccumulation/Accumulation  Not Available

13. DISPOSAL MEASURES

Waste Disposal Method: Observe all federal, state and local laws when considering most appropriate disposal method. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated Packaging: Avoid contact with skin and clothing. Dispose of in compliance with the respective national and local regulations.
US EPA Waste Number: Not Available

14. TRANSPORTATION MEASURES

DOT: Not Regulated
IATA: Not Regulated
ADR (road)/ RID (rail): Not Regulated
IMDG (sea): Not Regulated
General Transport Regulations Non-regulated, non-hazardous for transport

15. REGULATORY MEASURES

This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 (OSHA HCS).

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61) Not Available

State Regulations
**California Proposition 65:**
This product contains the following Proposition 65 chemicals: Not Listed

**State Right to Know Act**

<table>
<thead>
<tr>
<th>State</th>
<th>Chemical Name Details</th>
<th>Proprietary formulation; no other hazardous components above 1% or carcinogens above 0.1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Massachusetts</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
<tr>
<td>New Jersey</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
<tr>
<td>New York</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

**International Inventories**

<table>
<thead>
<tr>
<th>Country</th>
<th>Chemical Name Details</th>
<th>Proprietary formulation; no other hazardous components above 1% or carcinogens above 0.1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Listed</td>
</tr>
<tr>
<td>DSL</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
<tr>
<td>NDSL</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
<tr>
<td>EINECS</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Listed</td>
</tr>
<tr>
<td>CHINA</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
<tr>
<td>KECL</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
<tr>
<td>JAPAN</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
<tr>
<td>KECS</td>
<td>3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

**EU Regulations**

<table>
<thead>
<tr>
<th>Classification</th>
<th>EC# : 259-364-6</th>
<th>CAS# : 54827-17-7</th>
<th>Substance Name : 3,3',5,5'-tetramethylbenzidine</th>
<th>Molecular Formula : C16H20N2 - Not Classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk Phrases</td>
<td>Not Available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety Phrases</td>
<td>Not Available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symbols and Indications of Danger</td>
<td>Not Available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Concentration Limits</td>
<td>Not Available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Export and Import</td>
<td>This substance is not listed in the Annex I of Regulation (EC) No 689/2008.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>European Priority List</td>
<td>This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. 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.

Revision Date: 7/5/2014