

# Safety Data Sheet



Revision Date: 7/21/2014

SDS #: 10123

TMB 1-Component Membrane Peroxidase Substrate

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Description:

TMB 1-Component Membrane Peroxidase  
Substrate

### Product Code

50-77-04

SPL-TMB

50-77-18

50-77-03

50-77-02

### Hazardous Reagent

TMB 1-Component Membrane Solution

### 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	Telephone: 13 11 26	Hours: 24 hours
CANADIAN TRANSPORT EMERGENCY CENTER	Telephone: (1 ) 613 996 6666	Hours: 24 hours/day, 7 days/week
UK – THE NATIONAL FOCUS	Telephone: (44) 029 2041 6388	Hours: 09:00-17:00 GMT
USA- NATIONAL RESPONSE CENTER	Telephone: (1 ) 800 424 8802	Hours: 24 hours/day, 7 days/week

**CHEMTREC:** CHEMTREC Customer Number:- CCN12505\*  
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 CCN12505 or  
+1 703-527-3887 (collect calls accepted)

## 2. HAZARD IDENTIFICATION

**Hazard Type** GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): The product contains no substances which at their given concentration, are considered to be hazardous.

**Principle Route of Exposure** The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

SDS #: 10123

TMB 1-Component Membrane Peroxidase Substrate

**Acute Effects: Eye:** May cause redness and blurred vision.  
**Acute Effects: Skin:** Dry skin and Irritation may occur  
**Acute Effects: Inhalation:** Headache and Nausea may occur.  
**Acute Effects: Ingestion:** Nausea, Vomiting and Drowsiness may occur  
**Chronic Effects:** None Available  
**Additional Information** The product contains no substances which at their given concentration, are considered to be hazardous to health

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
TMB 1-Component Membrane Peroxidase Substrate	Dimethylsulfoxide	≤ 1.0%	67-68-5
	1,2,6-Hexanetriol	≤ 5.0 %	106-69-4

**GHS Classification** Not Applicable:  
The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment as per:  
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Regulation (EC) No 1272/2008

### 4. FIRST AID MEASURES

**General Advice** Wash contaminated clothing before reuse.  
**Oral Exposure** Do not induce vomiting. Refer for medical attention.  
**Inhalation Exposure** Remove subject to fresh air. Seek medical attention if necessary.  
**Skin Exposure** Remove contaminated clothes. Rinse and then wash skin with water and soap. Seek medical attention if irritation persists.  
**Eye Exposure** First rinse with plenty of water for several minutes (remove contact lenses if easily possible). Seek medical attention if irritation persists.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media** Foam, Alcohol Foam, CO2, Dry Chemical and Water/Fog

**Unusual Fire and Explosive Hazards** May emit toxic fumes under fire conditions.

**Flash Point** Not Available

**Autoignition Temperature** Not Available

**Flammability Statement** Not Available

**Specific hazards arising from the chemical** May emit toxic fumes under fire conditions. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Avoid contact with skin and clothing.
<b>Environmental Precautions</b>	Not Available
<b>Method of Containment</b>	Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place.
<b>Methods of Clean-up</b>	Clean-up with copious amounts of water.
<b>Other Information</b>	Not Applicable

**7. HANDLING AND STORAGE**

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Storage:</b>	Store at room temperature. Separated from strong oxidants.

**8. EXPOSURE CONTROL**

<b>Respiratory Protection</b>	None required if good ventilation is maintained. Otherwise wear MSHA/NIOSH approved respirator suitable for vapor or mist concentrations encountered. May be harmful if inhaled in very large quantities.
<b>Eye Protection</b>	Safety spectacles.
<b>Skin Protection</b>	Protective gloves. Protective clothing.
<b>Ingestion</b>	Do not eat, drink, or smoke during work.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Clear, colorless to slightly bluish tinge solution
<b>Physical State</b>	Liquid
<b>Odor</b>	Not Available
<b>Odor Threshold</b>	Not Available
<b>pH</b>	4.45 - 4.55
<b>Boiling Point</b>	Not Available
<b>Evaporation Rate</b>	Not Available
<b>Vapor Density</b>	Not Available
<b>Vapor Pressure</b>	Not Available
<b>Relative Density</b>	Not Available
<b>Auto-Ignition Temperature</b>	Not Available
<b>Water Solubility</b>	Dilutable
<b>Flammability</b>	Not Available
<b>Flash Point</b>	Not Available
<b>Viscosity</b>	Not Available
<b>Oxidizing Properties</b>	Not Available
<b>Explosive Properties</b>	Not Available

Additional Parameters Not Available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable.
<b>Conditions to avoid</b>	Not Available
<b>Incompatibility Materials to Avoid</b>	Other strong oxidizing agents, acid chlorides, acid anhydrides
<b>Hazardous Decomposition Products</b>	Upon evaporation of water, may emit carbon monoxide, carbon dioxide, SO X
<b>Hazardous Polymerization</b>	Will not occur
<b>Possibility of hazardous reactions</b>	Not Applicable

## 11. TOXICOLOGY MEASURES

### Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

<b>LD50 Oral</b>	Not Available
<b>LD50 Dermal</b>	Not Available
<b>LC50 Inhalation</b>	Not Available

### Chronic Toxicity

<b>Carcinogenicity</b>	Not applicable.
<b>Irritation</b>	Yes. May occur
<b>Corrosivity</b>	Not applicable.
<b>Sensitization</b>	Not applicable.
<b>Neurological Effects</b>	Not applicable.
<b>Mutagenic Effects</b>	Not applicable.
<b>Reproductive Effects</b>	Not applicable.
<b>Developmental Effects</b>	Not applicable.
<b>Target Organ Effects</b>	Not applicable.
<b>Other adverse effects</b>	Not Available

## 12. ECOLOGICAL MEASURES

<b>Ecotoxicity</b>	Not Available
<b>Persistence/Degradability</b>	Not Available
<b>Mobility in Environmental Media</b>	Not Available

**Bioaccumulation/  
Accumulation** Not Available

**13. DISPOSAL MEASURES**

**Waste Disposal Method:** Observe all Federal, State and Local laws concerning health and pollution.  
**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** Not Available

**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**

<b>Chemical Name</b>	<b>Dimethylsulfoxide</b>	<b>1,2,6-Hexanetriol</b>
<b>Massachusetts</b>	Not Listed	Not Listed
<b>New Jersey</b>	Not Listed	Not Listed
<b>Pennsylvania</b>	Not Listed	Not Listed
<b>New York</b>	Not Listed	Not Listed
<b>Rhode Island</b>	Not Listed	Not Listed

**International Inventories**

<b>Chemical Name</b>	<b>Dimethylsulfoxide</b>	<b>1,2,6-Hexanetriol</b>
----------------------	--------------------------	--------------------------

SDS #: 10123

**TMB 1-Component Membrane Peroxidase Substrate**

<b>TSCA</b>	Listed	Listed
<b>DSL</b>	Not Listed	Listed
<b>NDSL</b>	Listed	Not Listed
<b>EINECS</b>	Listed	Listed
<b>CHINA</b>	Listed	Listed
<b>KECL</b>	Listed	Listed
<b>JAPAN:</b>	Listed	Listed
<b>AICS</b>	Listed	Listed

**EU Regulations**

<b>Annex I Index#</b>	Not Applicable
<b>Classification</b>	Not Applicable: The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment as per: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Regulation (EC) No 1272/2008
<b>Risk Phrases</b>	Not Applicable
<b>Safety Phrases</b>	Not Applicable
<b>Symbols and Indications of Danger</b>	Not Applicable
<b>Specific Concentration Limits</b>	Not Applicable
<b>Export and Import</b>	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.
<b>European Priority List</b>	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.

**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 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: 7/21/2014