



Safety Data Sheet

KIT - Protein Detector Western Blot Kit, TMB System

SDS-10245

Rev. Number: 2

Rev. Date: Feb 6, 2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
KPL Protein Detector Western Blot Kit, TMB System	5410-0008 (54-11-50)

Kit Components	Part Code
KPL 20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)	5150-0010 (50-63-03)
KPL Detector Block Solution 5X	5440-0003 (71-83-01)
KPL TMB 1-Component Membrane Peroxidase Substrate	5120-0055 (50-77-02)
KPL HRP, Goat Anti-Rabbit, Liquid	5450-0005 (374-1506)
KPL HRP, Goat Anti-Mouse, Liquid	5450-0006 (374-1806)
KPL Detector Block Powder	5920-0006 (72-01-03)

Recommended Use:	Reagent		
Contact Manufacturer:	SeraCare Life Sciences 910 Clopper Road Gaithersburg, MD 20878	Phone #:	(508) 244-6400 US Toll Free: (800) 676-1881
		Fax #:	(508) 634-3394
		Web:	www.seracare.com
		Email:	customerservice@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)

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
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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

Personal Precautions	Avoid contact with skin and clothing.
Environmental Precautions	Not Available
Method of Containment	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.
Methods of Clean-up	Clean-up with copious amounts of water.
Other Information	Not Applicable

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROL

Respiratory Protection	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.
Eye Protection	Safety spectacles.
Skin Protection	Protective gloves. Protective clothing.
Ingestion	Do not eat, drink, or smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Additional Parameters Not Available

10. STABILITY AND REACTIVITY

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

LD50 Oral	Not Available
LD50 Dermal	Not Available
LC50 Inhalation	Not Available

Chronic Toxicity

Carcinogenicity	Not applicable.
Irritation	Yes. May occur
Corrosivity	Not applicable.
Sensitization	Not applicable.
Neurological Effects	Not applicable.
Mutagenic Effects	Not applicable.
Reproductive Effects	Not applicable.
Developmental Effects	Not applicable.
Target Organ Effects	Not applicable.
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 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

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

International Inventories

Chemical Name	Dimethylsulfoxide	1,2,6-Hexanetriol
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SDS #: 10123

TMB 1-Component Membrane Peroxidase Substrate

TSCA	Listed	Listed
DSL	Not Listed	Listed
NDSL	Listed	Not Listed
EINECS	Listed	Listed
CHINA	Listed	Listed
KECL	Listed	Listed
JAPAN:	Listed	Listed
AICS	Listed	Listed

EU Regulations

Annex I Index#	Not Applicable
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
Risk Phrases	Not Applicable
Safety Phrases	Not Applicable
Symbols and Indications of Danger	Not Applicable
Specific Concentration Limits	Not Applicable
Export and Import	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.
European Priority List	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