

Safety Data Sheet



Revision Date: 6/30/2014

SDS #: SDS-10306-01

TMB Peroxidase Substrate System

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:

TMB Peroxidase Substrate System
TMB Peroxidase Substrate System
TMB Peroxidase Substrate System

Product Code

50-76-11
50-76-03
50-76-00

Kit Components:

TMB Peroxidase Substrate	50-76-01
TMB Peroxidase Substrate	50-76-02
Peroxidase Substrate Solution B	50-65-00
Peroxidase Substrate Solution B	50-65-02

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)

Safety Data Sheet



Revision Date: 6/30/2014

MSDS #: 10136

TMB Peroxidase Substrate

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
TMB Peroxidase Substrate	50-76-25
TMB Peroxidase Substrate	50-76-09
TMB Peroxidase Substrate	50-76-08
TMB Peroxidase Substrate	50-76-02
TMB Peroxidase Substrate	50-76-01
TMB Peroxidase Substrate	37-00-78

Hazardous Reagent
TMB Peroxidase Substrate System

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
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CHEMTREC: CHEMTREC Customer Number:- CCN12505*
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
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+1 703-527-3887 (collect calls accepted)

2. HAZARD IDENTIFICATION

Hazard Type

Health Hazard

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Classification

Repr. 1B: Reproductive toxicity
Acute Tox. 4 : Acute Toxicity
Acute Tox. 4 *
Eye Irrit. 2: Serious eye damage/eye irritation
Dgr: Danger

Hazard Statement

H360D: May damage the unborn child.
H332: Harmful if inhaled
H312: Harmful in contact with skin
H319: Causes serious eye irritation

Precautionary Statement

P201: Obtain special instructions before use.

TMB Peroxidase Substrate

P202: Do not handle until all safety precautions have been read and understood.
 P281: Use personal protective equipment as required.
 P264: Wash skin thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P280: Wear protective gloves/ protective clothing / eye protection/ face protection.

Symbols of Danger

GHS08
 GHS07
 Danger

**Data for 100% Hazardous Chemical**

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation and through the skin.

INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.

SHORT-TERM EXPOSURE: The substance is irritating to the eyes . The substance may cause effects on the liver , resulting in jaundice . See Notes.

LONG-TERM EXPOSURE: The substance may have effects on the liver , resulting in impaired functions . Animal tests show that this substance possibly causes toxic effects upon human reproduction.

The product is a Mixture. It May Cause the following symptoms.

EYES: Redness. Pain.

SKIN: MAY BE ABSORBED!

INHALATION: Abdominal pain. Diarrhoea. Nausea. Vomiting. Facial flushing.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
TMB Peroxidase Substrate	N.N.-Dimethylformamide	26%	68-12-2

Classification

Repr. 1B: Reproductive toxicity
 Acute Tox. 4 : Acute Toxicity
 Acute Tox. 4 *
 Eye Irrit. 2: Serious eye damage/eye irritation
 Dgr: Danger

4. FIRST AID MEASURES

Data for 100% Hazardous Chemical

Ingestion First Aid: Not Available

Inhalation First Aid: Fresh air, rest. Refer for medical attention.

Skin First Aid: Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

Eye First Aid: First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

5. FIRE FIGHTING MEASURES

Data For 100% Hazardous Chemical

Fire Acute Hazard:	Fire Prevention:	Fire Fighting:
Flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking. NO contact with oxidants.	Powder, alcohol-resistant foam, water spray, carbon dioxide.
Explosion Acute Hazard:		
Above 58°C explosive vapour/air mixtures may be formed.	Above 58°C use a closed system, ventilation.	In case of fire: keep drums, etc., cool by spraying with water.
CHEMICAL DANGERS:	The substance decomposes on heating or on burning producing toxic fumes including nitrogen oxides . Reacts violently with oxidants, nitrates and halogenated hydrocarbons. Attacks some plastic and rubber.	
PHYSICAL DANGERS:	Not Available	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing.
Environmental Precautions	Data for 100% Dimethylformamide:- Environmental effects from the substance have been investigated but none have been found.
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	Remove all ignition sources. Contain spill and then clean-up with copious amounts of water.
Other Information	Data for 100% Dimethylformamide:- Personal protection: complete protective clothing including self-contained breathing apparatus.

Data for 100% Hazardous Chemical

SPILLAGE DISPOSAL	Personal protection: complete protective clothing including self-contained breathing apparatus. Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert
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7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice. Take care to maintain clean working place. The substance must not be present at workplaces in quantities above that required for work to be progressed. Do not leave container open. Use leak-proof equipment with exhaust for refilling or transfer. Do not transport with/using compressed air. Avoid splashing. Fill only into labelled container. Use solvent resistant utensils. Avoid any contact when handling the substance. Prevent seepage into flooring (use of a steel tub). Use an appropriate exterior vessel when transporting in fragile containers.
Storage:	Store at 2 - 8°C. Separated from strong oxidants, halogens .

Data for 100% Hazardous Chemical

STORAGE	Separated from strong oxidants, halogens .
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8. EXPOSURE CONTROL

Data for 100% Hazardous Chemical

• INHALATION	Ventilation, local exhaust, or breathing protection.
• EYES	Safety goggles or eye protection in combination with breathing protection.
• SKIN	Protective gloves. Protective clothing.
• INGESTION	Rinse mouth.

Engineering Controls Not Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear to slightly bluish colored solution.**Physical State** Liquid**pH:** Not Available**Data for 100% Hazardous Chemical**

Boiling point: 153°C	Melting point: -61°C	Relative density (water = 1): 0.95	Solubility in water: miscible	Vapour pressure, Pa at 25°C: about 492	Relative density of the vapour/air-mixture at 20°C (air = 1): 1.00
Flash point: 58°C c.c.	Auto-ignition temperature: 445°C	Explosive limits, vol% in air: 2.2-15.2 at 100°C	Octanol/water partition coefficient as log Pow: -0.87		

10. STABILITY AND REACTIVITY**Chemical Stability** Stable under normal conditions**Incompatibility Materials to Avoid** Oxidants, nitrates and halogenated hydrocarbons, Acid Chlorides, Chloroformates**Hazardous Decomposition Products** Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides Data for 100% Dimethylformamide:- The substance decomposes on heating or on burning producing toxic fumes including nitrogen oxides .**Hazardous Polymerization** Will not occur**Data for 100% Hazardous Chemical**

CHEMICAL DANGERS:	The substance decomposes on heating or on burning producing toxic fumes including nitrogen oxides . Reacts violently with oxidants, nitrates and halogenated hydrocarbons. Attacks some plastic and rubber.
PHYSICAL DANGERS:	Not Available

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 Data for 100% Dimethylformamide:- LD50 oral rat: 2800 mg/kg Reference: Zeitschrift für Krebsforschung. Vol. 69, Pg. 103, 1967.**LD50 Dermal** Data for 100% Dimethylformamide:- LD50 dermal rat/rabbit: 4720 mg/kg Species: Rabbit Reference: American Industrial Hygiene Association Journal. Vol. 30, Pg. 470, 1969.**LC50 Inhalation** Data for 100% Dimethylformamide:- LC50 Fish (96 hours)
Minimum: 7100 mg/l
Maximum: 11300 mg/l
Median: 10500 mg/l
Study number: 8

Reference: Cardwell, R.D., D.G. Foreman, T.R. Payne, and D.J. Wilbur 1978. Acute and Chronic Toxicity of Four Organic Chemicals to Fish. U.S.EPA, Environ.Res.Lab., Duluth, MN; Contract 68-01-0711 (Unpublished):26 p.

Chronic Toxicity**Carcinogenicity** Not Applicable**Irritation** Skin and Eye Irritant**Corrosivity** Not Applicable**Sensitization** Not Applicable**Neurological Effects** Not Available**Mutagenic Effects** Not Available**Reproductive Effects** Data for 100% Dimethylformamide:- May damage the developing fetus.**Developmental Effects** Not Available

Target Organ Effects

Data for 100% Dimethylformamide:- Eyes, Skin and Respiratory tract, Liver, Kidneys

Other adverse effects

Not Available

12. ECOLOGICAL MEASURES

Ecotoxicity

LC50 Crustaceans (48 hours)

Minimum: 12300 mg/l
 Maximum: 14500 mg/l
 Median: 14400 mg/l

Study number: 3

Reference for median:

Ziegenfuss, P.S., W.J. Renaudette, and W.J. Adams 1986. Methodology for Assessing the Acute Toxicity of Chemicals Sorbed to Sediments: Testing the Equilibrium Partitioning Theory. In: T.M.Poston and R.Purdy (Eds.), Aquatic Toxicology and Environmental Fate, 9th Volume, ASTM STP 921, Philadelphia, PA :479-493

Persistence/Degradability

Not Available

Mobility in Environmental Media

Not Available

Bioaccumulation/Accumulation

Not Available

13. DISPOSAL MEASURES

Waste Disposal Method:

Collection of small amounts of substance: Place in a collection container for halogen-free organic solvents and solutions of halogen-free organic substances. Collection vessels must be clearly labelled with a systematic description of their contents and with the hazard symbol and the R and S phrases. Store the vessels in a well-ventilated location. Entrust them to the appropriate authorities for disposal.

Contaminated Packaging:

Avoid contact with skin and clothing. Place contaminated packaging in a break proof outer vessel and dispose on in compliance with national and local regulations.

US EPA Waste Number:

Not Available

14. TRANSPORTATION MEASURES

DOT:

Regulated: Hazard Class 3 | DOT ID No.: UN2265

IATA:

Not Available

ADR (road)/ RID (rail):

Not Available

IMDG (sea):

Not Available

General Transport Regulations

Data for 100% Dimethylformamide: UN-Number: 2265
 Shipping name: N,N-Dimethylformamide
 Hazard Identification Number: 30
 Class: 3 (Flammable Liquids)
 Packing Group: III (low danger)
 Danger Label: 3

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 the following chemical(s) subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372: Dimethyl formamide

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)

This product contains N,N-DIMETHYLFORMAMIDE which are subject to the reporting requirements of the Clean Air Act.

State Regulations

California Proposition 65:

This product contains the following Proposition 65 chemicals: None Listed

State Right to Know Act

Chemical Name	N.N.- Dimethylformamide
Massachusetts	Listed
New Jersey	Listed
Pennsylvania	Listed
New York	Listed
Rhode Island	Listed

International Inventories

Chemical Name	N.N.- Dimethylformamide
TSCA	Listed
DSL	Listed
NDSL	Not Listed
EINECS	Listed
CHINA	Listed
KECL	Listed
JAPAN:	Listed
AICS	Listed

EU Regulations

Annex I Index#	616-001-00-X
Classification	Repr. 1B: Reproductive toxicity Acute Tox. 4 : Acute Toxicity Acute Tox. 4 * Eye Irrit. 2: Serious eye damage/eye irritation Dgr: Danger
Risk Phrases	H360D: May damage the unborn child. H332: Harmful if inhaled H312: Harmful in contact with skin H319: Causes serious eye irritation
Safety Phrases	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P281: Use personal protective equipment as required. P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/ protective clothing / eye protection/ face protection.
Symbols and Indications of Danger	GHS08 GHS07 Danger
Specific Concentration Limits	Not Available
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 a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

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: 6/30/2014

Safety Data Sheet



Revision Date: 7/4/2014

SDS #: 10143

Peroxidase Substrate Solution B

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
Peroxidase Substrate Solution B	50-65-25
Peroxidase Substrate Solution B	50-65-05
Peroxidase Substrate Solution B	50-65-03
Peroxidase Substrate Solution B	50-65-02
Peroxidase Substrate Solution B	50-65-00
Peroxidase Substrate Solution B	37-00-86
Peroxidase Substrate Solution B	37-00-79
Peroxidase Substrate Solution B	37-01-61

Hazardous Reagent

None

Hazardous Reagent Product code

None

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
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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*
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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 to health or the environment.
Principle Route of Exposure	Not Applicable
Acute Effects: Eye:	Not Applicable
Acute Effects: Skin:	Not Applicable
Acute Effects: Inhalation:	Not Applicable
Acute Effects: Ingestion:	Not Applicable
Chronic Effects:	Not Applicable
Additional Information	Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
Peroxidase Substrate Solution B	Not Applicable	Not Applicable	Not Applicable

GHS Classification	The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment.
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4. FIRST AID MEASURES

General Advice	Not Applicable
Oral Exposure	Rinse mouth
Inhalation Exposure	Fresh air, rest.
Skin Exposure	with soap and water. Wash contaminated clothing before reuse.
Eye Exposure	Flush with copious amounts of water or eyewash saline for at least 15 minutes.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use extinguishing media appropriate for surrounding fire.
Unusual Fire and Explosive Hazards	Not Applicable
Flash Point	Not Applicable
Autoignition Temperature	Not Applicable
Flammability Statement	Not Applicable
Specific hazards arising from the chemical	Not Applicable

Protective equipment and precautions for firefighters

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing.
Environmental Precautions	Not Applicable
Method of Containment	Containment of spills requires no special equipment or procedures. Cover with absorbent.
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.
Storage:	Store at 2 – 8°C.

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. Protective clothing.
Ingestion	Do not eat, drink, or smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, Colorless Solution. Relatively free of particulate matter
Physical State	Liquid
Odor	Not Applicable
Odor Threshold	Not Applicable
pH	Not Applicable
Boiling Point	Not Applicable
Evaporation Rate	Not Applicable
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable
Relative Density	Not Applicable
Auto-Ignition Temperature	Not Applicable
Water Solubility	Dilutable
Flammability	Not Applicable
Flash Point	Not Applicable
Viscosity	Not Applicable
Oxidizing Properties	Not Applicable
Explosive Properties	Not Applicable

Additional Parameters Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to avoid	Not Available
Incompatibility Materials to Avoid	Not Applicable
Hazardous Decomposition Products	Not Applicable
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 Applicable
LD50 Dermal	Not Applicable
LC50 Inhalation	Not Applicable

Chronic Toxicity

Carcinogenicity	Not Applicable
Irritation	Not Applicable
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 Applicable

12. ECOLOGICAL MEASURES

Ecotoxicity	Not Applicable
Persistence/Degradability	Not Applicable
Mobility in Environmental Media	Not Applicable

**Bioaccumulation/
Accumulation** Not Applicable

13. DISPOSAL MEASURES

Waste Disposal Method: Normal disposal with copious amounts of water. Observe all Federal, State and Local environmental regulations.

Contaminated Packaging: Not Applicable

US EPA Waste Number: Not Applicable

14. TRANSPORTATION MEASURES

DOT: Not Regulated

IATA: Not Regulated

ADR (road)/ RID (rail): Not Regulated

IMDG (sea): Not Regulated

General Transport Regulations Not Applicable

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 Not Applicable

Massachusetts Not Applicable

New Jersey Not Applicable

Pennsylvania Not Applicable

New York Not Applicable

Rhode Island Not Applicable

International Inventories

Chemical Name Not Applicable

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

EU Regulations**Annex I Index#**

Classification The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment.

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 a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

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: 7/4/2014