

Safety Data Sheet



Revision Date: 7/5/2014

SDS #: 10122

SureBlue Reserve™ TMB Microwell Peroxidase Substrate (1-Component)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
SureBlue Reserve™ TMB Microwell Peroxidase Substrate	SPL-SBR
SureBlue Reserve™ TMB Microwell Peroxidase Substrate	53-00-04
SureBlue Reserve™ TMB Microwell Peroxidase Substrate	53-00-03
SureBlue Reserve™ TMB Microwell Peroxidase Substrate	53-00-02
SureBlue Reserve™ TMB Microwell Peroxidase Substrate	53-00-01
SureBlue Reserve™ TMB Microwell Peroxidase Substrate	53-00-00
SureBlue Reserve™ TMB Microwell Peroxidase Substrate	37-01-48

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
CANADIAN TRANSPORT EMERGENCY CENTER
UK – THE NATIONAL FOCUS
USA- NATIONAL RESPONSE CENTER

Telephone: 13 11 26
Telephone: (1) 613 996 6666
Telephone: (44) 029 2041 6388
Telephone: (1) 800 424 8802

Hours: 24 hours
Hours: 24 hours/day, 7 days/week
Hours: 09:00-17:00 GMT
Hours: 24 hours/day, 7 days/week

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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	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 Hazard Communication regulations (29 CFR 1910.1200).
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

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

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/NIOSH 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

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Appearance	Clear to light yellow cast liquid
Physical State	Liquid Solution
Odor	None
Odor Threshold	Not Available
pH	3.5 - 3.9
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	Aqueous
Flammability	Not Flammable
Flash Point	Not Available
Viscosity	Not Available
Oxidizing Properties	Not an Oxidizer
Explosive Properties	Not Explosive
Additional Parameters	Not Available

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, CO ₂) 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.

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

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.
Corrosivity	Not Available
Sensitization	Not Available

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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 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	3,3',5,5'- tetramethylbenzidine (non-carcinogenic analog of benzidine)	Proprietary formulation; no other hazardous components above 1% or carcinogens above 0.1%
Massachusetts	Not Listed	Not Available
New Jersey	Not Listed	Not Available
Pennsylvania	Not Listed	Not Available
New York	Not Listed	Not Available
Rhode Island	Not Listed	Not Available

International Inventories

Chemical Name	3,3',5,5'- tetramethylbenzidine (non-carcinogenic analog of benzidine)	Proprietary formulation; no other hazardous components above 1% or carcinogens above 0.1%
TSCA	Listed	Listed
DSL	Listed	Not Available
NDSL	Not Listed	Not Available
EINECS	Listed	Not Available
CHINA	Listed	Not Available
KECL	Not Listed	Not Available
JAPAN:	Listed	Not Available
AICS	Listed	Not Available

EU Regulations

Annex I Index#	Not Available
Classification	EC# : 259-364-6 CAS# : 54827-17-7 Substance Name : 3,3',5,5'- tetramethylbenzidine Molecular Formula : C16H20N2 - Not Classified
Risk Phrases	Not Available
Safety Phrases	Not Available
Symbols and Indications of Danger	Not Available
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.

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