

Safety Data Sheet



Revision Date: 7/31/2014

SDS #: SDS-10245-01

Protein Detector Western Blot Kit, TMB System

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:

Protein Detector Western Blot Kit, TMB System

Product Code

54-11-50

Kit Components:

Detector Block Powder	
20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)	50-63-03
Detector Block Solution 5X	71-83-01
TMB 1-Component Membrane Peroxidase Substrate	50-77-02
HRP,GT ANTI-RB,LIQ	374-1506
HRP,GOAT ANTI-MOUSE,LIQUID	374-1806
Detector Block Powder	72-01-03

Recommended Use Kit (See Attached Safety Data Sheets For Components Listed Above)

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: 6/27/2014

SDS #: 10133

20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description	Product Code
20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)	50-63-00
	50-63-01
	50-63-03
	50-63-04
	50-63-19
	SPL-WASH

Hazardous Reagent

None

Hazardous Reagent Product code

None

Recommended Use Reagent

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

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2. HAZARD IDENTIFICATION

Hazard Type Not Hazardous

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

Acute Effects: Eye: May cause redness and irritation

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20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)

Acute Effects: Skin: May be absorbed. Dry skin. Redness.
Acute Effects: Inhalation: Not Applicable
Acute Effects: Ingestion: May cause nausea, vomiting and drowsiness
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>
20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)	Not Applicable	Not Applicable	Not Applicable
GHS Classification	Not Applicable: In accordance with Annex II, the product mixture does not meet the criteria for classification as hazardous in accordance with Titles I and II of Regulation (EC) No 1272/2008 as it contains (a) in an individual concentration of < 1 % by weight for non-gaseous mixtures at least one substance posing human health or environmental hazards; or (b) in an individual concentration of < 0.1 % by weight for non-gaseous mixtures at least one substance that is carcinogenic category 2 or toxic to reproduction category 1A, 1B and 2, skin sensitiser category 1, respiratory sensitiser category 1, or has effects on or via lactation or is persistent, bioaccumulative and toxic (PBT) in accordance with the criteria set out in Annex XIII or very persistent and very bioaccumulative (vPvB) in accordance with the criteria set out in Annex XIII or has been included for reasons other than those referred to in point (a) in the list established in accordance with Article 59(1).		

4. FIRST AID MEASURES

General Advice Not Applicable
Oral Exposure Rinse mouth
Inhalation Exposure Fresh air, rest.
Skin Exposure Clean skin 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 In case of fire in the surroundings, use appropriate extinguishing media.
Unusual Fire and Explosive Hazards Not Applicable
Flash Point Not Applicable
Autoignition Temperature Not flammable
Flammability Statement Not flammable

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/NIOSH 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	7.1 - 7.4
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

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20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)

Oxidizing Properties	Not Applicable
Explosive Properties	Not Applicable
Additional Parameters	See Datasheet for more product information.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to avoid	Not Applicable
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 Available
LD50 Dermal	Not Available
LC50 Inhalation	Not Available

Chronic Toxicity

Carcinogenicity	Not Applicable
Irritation	Not Available
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 Applicable
Persistence/Degradability	Not Applicable

SDS #: 10133

20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)

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)

N/A

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

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20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)

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

Not Applicable: In accordance with Annex II, the product mixture does not meet the criteria for classification as hazardous in accordance with Titles I and II of Regulation (EC) No 1272/2008 as it contains

- (a) in an individual concentration of < 1 % by weight for non-gaseous mixtures at least one substance posing human health or environmental hazards; or
- (b) in an individual concentration of < 0.1 % by weight for non-gaseous mixtures at least one substance that is carcinogenic category 2 or toxic to reproduction category 1A, 1B and 2, skin sensitiser category 1, respiratory sensitiser category 1, or has effects on or via lactation or is persistent, bioaccumulative and toxic (PBT) in accordance with the criteria set out in Annex XIII or very persistent and very bioaccumulative (vPvB) in accordance with the criteria set out in Annex XIII or has been included for reasons other than those referred to in point (a) in the list established in accordance with Article 59(1).

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 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.

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

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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

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



Safety Data Sheet

Revision Date: 6/11/2015

Detector Block Solution 5X

SDS #: SDS-10124-03

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
Detector Block Solution 5X (Sample)	SPL-DB
Detector Block Solution 5X	71-83-01
Detector Block Solution 5X	71-83-04
Detector Block Solution 5X	71-83-02

Hazardous Reagent	Hazardous Reagent Product code
None	Not Applicable

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:

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+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.
Acute Effects: Eye:	Eye Irritant
Acute Effects: Skin:	Prolonged contact can cause skin irritation
Acute Effects: Inhalation:	Irritating to mucus membranes and upper respiratory tract.
Acute Effects: Ingestion:	None available
Chronic Effects:	None Available

Additional Information

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
Detector Block Solution 5X	2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	< 2.5%	1185-53-1

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. Consult a physician if irritation persists.
Oral Exposure	Rinse mouth. Refer for medical attention.
Inhalation Exposure	Remove subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, give oxygen. Seek medical attention.
Skin Exposure	First rinse with plenty of water, then remove contaminated clothes and rinse again. Refer for medical attention.
Eye Exposure	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

5. FIRE FIGHTING MEASURES

Extinguishing media	Foam, Alcohol Foam, CO ₂ , Dry Chemical and Water/Fog
Unusual Fire and Explosive Hazards	May emit toxic fumes under fire conditions.
Flash Point	Not Applicable
Autoignition Temperature	Not Available
Flammability Statement	Not Available
Specific hazards arising from the chemical	Not Available
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 Applicable
Method of Containment	Collect leaking and spilled liquid in sealable containers as far as possible.
Methods of Clean-up	Clean up the spill with absorbent material and place in closed containers for disposal. Wash the spill site thoroughly. Ventilate area before returning to the spill site.
Other Information	Not Applicable

7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice.
Storage:	Store at 2-8°C.

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 goggles.
Skin Protection	Protective gloves. Protective clothing.
Ingestion	Do not eat, drink, or smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, brownish solution.
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
Conditions to avoid	Not Available
Incompatibility Materials to Avoid	Incompatible with bases and strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides.
Hazardous Polymerization	Will not occur
Possibility of hazardous reactions	Not Available

11. TOXICOLOGY MEASURES

Acute Toxicity

SDS #: SDS-10124-03

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 Available

Irritation Not Available

Corrosivity Not Available

Sensitization Not Available

Neurological Effects Not Available

Mutagenic Effects Not Available

Reproductive Effects Not Available

Developmental Effects Not Available

Target Organ Effects Eyes, Skin and Respiratory tract

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. 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: Not Available

IATA: Not Available

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

IMDG (sea): Not Available

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).

SDS #: SDS-10124-03

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 Listed

State Regulations

California Proposition 65:

This product contains the following Proposition 65 chemicals: None Listed

State Right to Know Act

Chemical Name 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

New Jersey Listed
Pennsylvania Listed
New York Listed
Rhode Island Listed

International Inventories

Chemical Name 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

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

EU Regulations

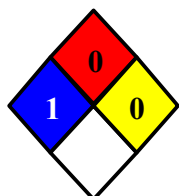
Annex I Index# Not Applicable
Classification Not Applicable:
 The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment as per:
 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
 Regulation (EC) No 1272/2008
Risk Phrases Not Applicable
Safety Phrases Not Applicable
Symbols and Indications of Danger Not Applicable
Specific Concentration Limits Not Applicable

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: 6/11/2015

Material Safety Data Sheet



Revision Date: 11/7/2011

MSDS #: 10190

72-01-03

Detector Block Powder

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description

Detector Block Powder

CATALOG NO.

72-01-03

Hazardous Reagent

DETECTOR BLOCK POWDER

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: msds@kpl.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

2. HAZARD IDENTIFICATION

Hazard Type	Irritant
Principle Route of Exposure	The substance can be absorbed into the body by inhalation, through the skin and by ingestion.
Acute Effects: Eye:	May cause Irritation
Acute Effects: Skin:	Absorption through skin may occur. May cause irritation to the skin
Acute Effects: Inhalation:	May cause irritation to the respiratory tract.
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>
Detector Block Powder	Proprietary Component (Trade Secret per 29 CFR 1910.1200 i 1)	100%	Proprietary

4. FIRST AID MEASURES

General Advice	Wash contaminated clothing before reuse.
Oral Exposure	Rinse mouth
Inhalation Exposure	Fresh air, rest.
Skin Exposure	Rinse with copious amounts of water
Eye Exposure	Rinse with copious amounts of water

5. FIRE FIGHTING MEASURES

Extinguishing media	Dry Chemical extinguishers, water spray or foam.
Unusual Fire and Explosive Hazards	At high temperatures (+750°) in a building fire, there will be considerable smoke before and after combustion in which case, smoke inhalation protection should be used.
Flash Point	550°F
Autoignition Temperature	Not Available
Flammability Statement	Not Flammable
Specific hazards arising from the chemical	Not Available
Protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. At high temperatures (+750°) in a building fire, there will be considerable smoke before and after combustion in which case, smoke inhalation protection should be used.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Avoid dust formation. Avoid breaking vapors, mist or gas.
Environmental Precautions	Not Available
Method of Containment	Scoop up and place in a suitable container. Avoid raising dust. Hold for appropriate disposal.
Methods of Clean-up	Clean-up with copious amounts of water.
Other Information	Not Applicable

7. HANDLING AND STORAGE

Handling: Wear appropriate PPE. Avoid overexposure to excessive dust particles.

Storage: Store away from heat and water sources.

8. EXPOSURE CONTROL

Respiratory Protection	Dust respirator 3M Part no: 8800 or other NIOSH approved version.
Eye Protection	Safety goggles.
Skin Protection	Protective gloves. Protective clothing.
Ingestion	Do not eat or drink

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Cream color, Granular powder
Physical State	Solid
Odor	Slight cheesy odor
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	(H ₂ O = 1): 1.28
Auto-Ignition Temperature	Not Applicable
Water Solubility	Colloidally dispersible
Flammability	Not Applicable
Flash Point	550°F
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	Avoid dust formation.
Incompatibility Materials to Avoid	None
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 Available
LD50 Dermal	Not Available
LC50 Inhalation	Not Available

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

13. DISPOSAL MEASURES

Waste Disposal Method:	As a food product and in accordance with local, state and federal regulations covering solid waste disposal.
Contaminated Packaging:	Not Available
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 g 2.C1.

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 Listed

State Regulations

California Proposition 65:

This product contains the following Proposition 65 chemicals: Not Listed

State Right to Know Act

Chemical Name	Proprietary Component (Trade Secret per 29 CFR 1910.1200 i 1)
Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
New York	Not Listed
Rhode Island	Not Listed

International Inventories

Chemical Name	Proprietary Component (Trade Secret per 29 CFR 1910.1200 i 1)
TSCA	Not Applicable
DSL	Not Applicable
NDSL	Not Applicable
EINECS	Not Applicable
ELINCS	Not Applicable
CHINA	Not Applicable
KECL	Not Applicable
JAPAN:	Not Applicable
AICS	Not Applicable

EU Regulations

Annex I Index# Not Applicable

Classification	Not Applicable
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 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.