

# Safety Data Sheet



Revision Date: 7/31/2014

SDS #: SDS-10252-01

Protein Detector Western Blot Kit, BCIP/NBT System

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Description:

Protein Detector Western Blot Kit, BCIP/NBT System

### Product Code

55-11-50

### Kit Components:

BCIP/NBT Phosphatase Substrate (1-Component)	50-81-08
AP,Goat anti - Mouse	375-1806
AP,Goat anti - Rabbit	375-1506
20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)	50-63-03
Detector Block Solution 5X	71-83-01

**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](http://www.kpl.com)  
**Email:** [kplmsds@seracare.com](mailto: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

SDS #: 10125

BCIP/NBT Phosphatase Substrate (1-Component)

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Description:

BCIP/NBT Phosphatase Substrate (1-Component)

### Product Code

50-81-07

SPL-BCIP

50-81-25

50-81-18

50-81-11

50-81-10

50-81-09

50-81-08

### Hazardous Reagent

BCIP/NBT 1-COMPONENT

### 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](http://www.kpl.com)

**Email:** [kplmsds@seracare.com](mailto:kplmsds@seracare.com)

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## 2. HAZARD IDENTIFICATION

<b>Hazard Type</b>	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.
<b>Principle Route of Exposure</b>	The substance can be absorbed into the body by inhalation of its vapour and by ingestion.
<b>Acute Effects: Eye:</b>	Redness. Pain.
<b>Acute Effects: Skin:</b>	Prolonged and repeated contact with product may cause skin irritation.
<b>Acute Effects: Inhalation:</b>	Not Applicable
<b>Acute Effects: Ingestion:</b>	Not Applicable
<b>Chronic Effects:</b>	Repeated or prolonged contact may cause skin sensitization.
<b>Additional Information</b>	None Available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
BCIP/NBT Phosphatase Substrate (1-Component)	1,2 Propanediol	5 %	57-55-6

<b>GHS 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
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## 4. FIRST AID MEASURES

<b>General Advice</b>	Wash contaminated clothing before reuse. Consult a physician if irritation persists.
<b>Oral Exposure</b>	Rinse mouth.
<b>Inhalation Exposure</b>	Fresh air, rest.
<b>Skin Exposure</b>	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>Eye Exposure</b>	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Powder, alcohol-resistant foam, water spray, carbon dioxide.
<b>Unusual Fire and Explosive Hazards</b>	Data for 100% 1,2 Propanediol: Above 99°C explosive vapour/air mixtures may be formed.
<b>Flash Point</b>	Data for 100% 1,2 Propanediol: C c.c.; 107°C o.c.
<b>Autoignition Temperature</b>	Data for 100% 1,2 Propanediol: 371°C

<b>Flammability Statement</b>	Data for 100% 1,2 Propanediol: Combustible
<b>Specific hazards arising from the chemical</b>	Data for 100% 1,2 Propanediol: Reacts with strong oxidants, causing fire hazard.
<b>Protective equipment and precautions for firefighters</b>	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.
<b>Methods of Clean-up</b>	Wash away spilled liquid with plenty 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 4°C.

## 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 yellowish colored solution.
<b>Physical State</b>	Liquid
<b>Odor</b>	Not Applicable
<b>Odor Threshold</b>	Not Applicable
<b>pH</b>	9.0 - 9.6
<b>Boiling Point</b>	Data for 100% 1,2 Propanediol: 188.2°C
<b>Evaporation Rate</b>	Not Applicable
<b>Vapor Density</b>	Data for 100% 1,2 Propanediol: (air = 1): 2.6
<b>Vapor Pressure</b>	Data for 100% 1,2 Propanediol: Pa at 20°C: 10.6
<b>Relative Density</b>	Data for 100% 1,2 Propanediol: (air = 1): 2.6
<b>Auto-Ignition Temperature</b>	Data for 100% 1,2 Propanediol: 371°C
<b>Water Solubility</b>	Dilutable
<b>Flammability</b>	Data for 100% 1,2 Propanediol: Combustible
<b>Flash Point</b>	Data for 100% 1,2 Propanediol: C c.c.; 107°C o.c.

<b>Viscosity</b>	Not Applicable
<b>Oxidizing Properties</b>	Not Applicable
<b>Explosive Properties</b>	Data for 100% 1,2 Propanediol: vol% in air: 2.6-12.6
<b>Additional Parameters</b>	See Datasheet for other Product Information.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Conditions to avoid</b>	Data for 100% 1,2 Propanediol: Above 99°C explosive vapour/air mixtures may be formed.
<b>Incompatibility Materials to Avoid</b>	Strong oxidizing agents and strong bases.
<b>Hazardous Decomposition Products</b>	Carbon Monoxide, Carbon Dioxide
<b>Hazardous Polymerization</b>	Will not occur
<b>Possibility of hazardous reactions</b>	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.

<b>LD50 Oral</b>	Data for 100% 1,2 Propanediol: LD50 oral rat: 20000 mg/kg Reference: Toxicology and Applied Pharmacology. Vol. 45, Pg. 362, 1978.
<b>LD50 Dermal</b>	Data for 100% 1,2 Propanediol: LD50 dermal rat/rabbit: 20800 mg/kg Species: Rabbit
<b>LC50 Inhalation</b>	Not Available
<b><u>Chronic Toxicity</u></b>	
<b>Carcinogenicity</b>	Not Applicable
<b>Irritation</b>	Data for 100% 1,2 Propanediol: The substance irritates the eyes.
<b>Corrosivity</b>	Not Available
<b>Sensitization</b>	Data for 100% 1,2 Propanediol: Repeated or prolonged contact may cause skin sensitization.
<b>Neurological Effects</b>	Not Available
<b>Mutagenic Effects</b>	Not Available
<b>Reproductive Effects</b>	Not Available
<b>Developmental Effects</b>	Not Available
<b>Target Organ Effects</b>	Data for 100% 1,2 Propanediol: Kidneys
<b>Other adverse effects</b>	Not Available

## 12. ECOLOGICAL MEASURES

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

### 13. DISPOSAL MEASURES

<b>Waste Disposal Method:</b>	Observe all Federal, State, and Local laws concerning health and pollution.
<b>Contaminated Packaging:</b>	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.
<b>US EPA Waste Number:</b>	Not Available

### 14. TRANSPORTATION MEASURES

<b>DOT:</b>	Not Regulated
<b>IATA:</b>	Not Regulated
<b>ADR (road)/ RID (rail):</b>	Not Regulated
<b>IMDG (sea):</b>	Not Regulated
<b>General Transport Regulations</b>	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 Listed

#### **State Regulations**

#### **California Proposition 65:**

This product contains the following Proposition 65 chemicals: None Listed

#### **State Right to Know Act**

**Chemical Name**    **1,2 Propanediol**

**Massachusetts**    Not Listed

**New Jersey**        Listed

**Pennsylvania**      Listed

**New York**            Not Listed

**Rhode Island**      Listed

#### **International Inventories**

SDS #: 10125

BCIP/NBT Phosphatase Substrate (1-Component)

**Chemical Name** 1,2 Propanediol

**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

**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: 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

**Phone #:** 1-301-948-7755

**Fax #:** 1-301-948-0169

**Web:** www.kpl.com

**Email:** kplmsds@seracare.com

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+1 703-527-3887 (collect calls accepted)

## 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



SDS #: 10133

**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
<b>GHS Classification</b>	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

SDS #: 10133

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

<b>Oxidizing Properties</b>	Not Applicable
<b>Explosive Properties</b>	Not Applicable
<b>Additional Parameters</b>	See Datasheet for more product information.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to avoid</b>	Not Applicable
<b>Incompatibility Materials to Avoid</b>	Not Applicable
<b>Hazardous Decomposition Products</b>	Not Applicable
<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>	Not Available
<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 Applicable
<b>Persistence/Degradability</b>	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

SDS #: 10133

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: 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**  
None

**Hazardous Reagent Product code**  
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  
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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.

**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

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

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Foam, Alcohol Foam, CO <sub>2</sub> , Dry Chemical and Water/Fog
<b>Unusual Fire and Explosive Hazards</b>	May emit toxic fumes under fire conditions.
<b>Flash Point</b>	Not Applicable
<b>Autoignition Temperature</b>	Not Available
<b>Flammability Statement</b>	Not Available
<b>Specific hazards arising from the chemical</b>	Not Available
<b>Protective equipment and precautions for firefighters</b>	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 Applicable
<b>Method of Containment</b>	Collect leaking and spilled liquid in sealable containers as far as possible.
<b>Methods of Clean-up</b>	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.
<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 2-8°C.

## 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.
<b>Eye Protection</b>	Safety goggles.
<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, brownish solution.
<b>Physical State</b>	Liquid
<b>Odor</b>	Not Applicable
<b>Odor Threshold</b>	Not Applicable
<b>pH</b>	Not Applicable
<b>Boiling Point</b>	Not Applicable
<b>Evaporation Rate</b>	Not Applicable
<b>Vapor Density</b>	Not Applicable
<b>Vapor Pressure</b>	Not Applicable
<b>Relative Density</b>	Not Applicable
<b>Auto-Ignition Temperature</b>	Not Applicable
<b>Water Solubility</b>	Dilutable
<b>Flammability</b>	Not Applicable
<b>Flash Point</b>	Not Applicable
<b>Viscosity</b>	Not Applicable
<b>Oxidizing Properties</b>	Not Applicable
<b>Explosive Properties</b>	Not Applicable
<b>Additional Parameters</b>	Not Available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Conditions to avoid</b>	Not Available
<b>Incompatibility Materials to Avoid</b>	Incompatible with bases and strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides.
<b>Hazardous Polymerization</b>	Will not occur
<b>Possibility of hazardous reactions</b>	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).**

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**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 40 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