

# Safety Data Sheet



## KIT - BluePhos Microwell Phosphatase Substrate System

SDS #: SDS-10303

Rev. Number: 2

Rev. Date: Sep 16, 2016

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
BluePhos® Microwell Phosphatase Substrate System	50-88-00
	50-88-01
	50-88-02

#### Kit Components

Phosphatase Substrate Solution A  
50-88-03  
50-88-05  
50-88-07

BluePhos® Phosphatase Substrate Solution B  
50-88-04  
50-88-06  
50-88-08

**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 CHEMTREC: Telephone: (1 ) 800 424 8802 - Hours: 24 hours/day, 7 days/week

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 #: 10304

## Phosphatase Substrate Solution A

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
Phosphatase Substrate Solution A	50-88-13
Phosphatase Substrate Solution A	50-88-11
Phosphatase Substrate Solution A	50-88-09
Phosphatase Substrate Solution A	50-88-07
Phosphatase Substrate Solution A	50-88-05
Phosphatase Substrate Solution A	50-88-03

**Hazardous Reagent**  
PHOSPHATASE SUBSTRATE SOLUTION

**Hazardous Reagent Product code**  
Catalog No. listed above

**Recommended Use** Reagent

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

**Phone #:** 1-301-948-7755  
**Fax #:** 1-301-948-0169  
**Web:** www.kpl.com  
**Email:** kplmsds@seracare.com

#### Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER	Telephone: 13 11 26	Hours: 24 hours
CANADIAN TRANSPORT EMERGENCY CENTER	Telephone: (1 ) 613 996 6666	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** Causes Skin Irritation; Causes Eye Irritation; Harmful to Aquatic life with long lasting effects.

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

**Classification** Eye Irrit. 2  
Skin Irrit. 2  
Aquatic Chronic 3

**Hazard Statement** H319: Causes serious eye irritation  
H315: Causes skin irritation  
H412: Harmful to aquatic life with long lasting effects

**Precautionary Statement** P264: Wash skin thoroughly after handling.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P273: Avoid release to the environment.



## Data for 100% Hazardous Chemical

ROUTES OF EXPOSURE:	The substance can be absorbed into the body by inhalation and by ingestion.
INHALATION RISK:	No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20°C.
SHORT-TERM EXPOSURE	The substance is corrosive to the eyes. The substance is severely irritating to the skin . The aerosol is irritating to the respiratory tract .
LONG-TERM EXPOSURE:	The substance may have effects on the liver when ingested.

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

EYES: Redness. Pain. Severe deep burns.

SKIN: Redness. Pain.

INHALATION: Cough. Sore throat.

INGESTION: Abdominal pain. Burning sensation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
Phosphatase Substrate Solution A	2-Amino-2-Methyl-1-Propanol, (AMP)	4%	124-68-5

Classification

Eye Irrit. 2  
Skin Irrit. 2  
Aquatic Chronic 3

### 4. FIRST AID MEASURES

## Data for 100% Hazardous Chemical

<b>Ingestion First Aid:</b>	Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer for medical attention.
<b>Inhalation First Aid:</b>	Fresh air, rest. Refer for medical attention.
<b>Skin First Aid:</b>	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>Eye First Aid:</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

## Data For 100% Hazardous Chemical

<b>Fire Acute Hazard:</b>	<b>Fire Prevention:</b>	<b>Fire Fighting:</b>
Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, alcohol-resistant foam, water spray, carbon dioxide.
<b>Explosion Acute Hazard:</b>	Above 67°C use a closed system, ventilation.	Not Available

**CHEMICAL DANGERS:** The substance decomposes on burning producing toxic fumes including nitrogen oxides . The solution in water is a medium strong base. Reacts with strong acids , strong oxidants .

**PHYSICAL DANGERS:** Not Available

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Should not be released into the environment.
<b>Method of Containment</b>	Absorb any spilt liquid with an absorbent (e.g. diatomite, vermiculite, sand) and dispose of according to regulations. Afterwards ventilate area and wash spill site.
<b>Methods of Clean-up</b>	Clean-up with copious amounts of water.
<b>Other Information</b>	Wear respiratory protection, eye protection, hand protection and body protection

### Data for 100% Hazardous Chemical

**SPILLAGE DISPOSAL** Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. (Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust.)

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid any contact when handling the substance. Prevent seepage into flooring. Take care to maintain clean working place. Do not leave container open. Fill only into labelled container.
<b>Storage:</b>	Containers have to be labelled clearly and permanently. Keep container tightly closed. Recommended storage at 2-8.

### Data for 100% Hazardous Chemical

**STORAGE** Separated from strong oxidants, strong acids.

## 8. EXPOSURE CONTROL

### Data for 100% Hazardous Chemical

• <b>INHALATION</b>	Local exhaust or breathing protection.
• <b>EYES</b>	Safety goggles, or eye protection in combination with breathing protection if powder.
• <b>SKIN</b>	Protective gloves.
• <b>INGESTION</b>	Do not eat, drink, or smoke during work.

### Engineering Controls

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear Light Blue Solution	
<b>Physical State</b>	Liquid	<b>pH:</b> 9.7 - 10

### Data for 100% Hazardous Chemical

Boiling point: °C	Melting point: 31°C	Density: 0.93	g/cm <sup>3</sup>	Solubility in water:	miscible
Relative vapour density (air = 1): 3.0	Flash point:	67°C c.c.		Vapour pressure, Pa at 20°C:	133

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Incompatibility Materials to Avoid</b>	Not Available
<b>Hazardous Decomposition Products</b>	May produce toxic fumes including nitrogen oxides.
<b>Hazardous Polymerization</b>	Will not polymerize

## Data for 100% Hazardous Chemical

<b>CHEMICAL DANGERS:</b>	The substance decomposes on burning producing toxic fumes including nitrogen oxides . The solution in water is a medium strong base. Reacts with strong acids , strong oxidants .
<b>PHYSICAL DANGERS:</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>	LD50 oral rat  Value: 2900 mg/kg Reference: Journal of the American College of Toxicology. Vol. 9(2), Pg. 203, 1990.
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**LD50 Dermal** Not Available

**LC50 Inhalation** Not Available

### Chronic Toxicity

**Carcinogenicity** Not Available

**Irritation** Irritating to eyes, nose and throat.

**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 Liver

**Other adverse effects** Not Available

## 12. ECOLOGICAL MEASURES

**Ecotoxicity** Data for 2-amino-2-methylpropanol: Harmful to aquatic life with long lasting effects.

**Persistence/Degradability** Not Available

**Mobility in Environmental Media** Not Available

**Bioaccumulation/Accumulation** Not Available

## 13. DISPOSAL MEASURES

**Waste Disposal Method:** Avoid escape into water, drainage, sewer, or the ground. If there is no way of recycling it must be disposed of in compliance with the respective national and local regulations.

**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 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: None Listed

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

<b>Chemical Name</b>	<b>2-Amino-2-Methyl-1-Propanol, (AMP)</b>
<b>Massachusetts</b>	Listed
<b>New Jersey</b>	Listed
<b>Pennsylvania</b>	Listed
<b>New York</b>	Not Listed
<b>Rhode Island</b>	Not Listed

### **International Inventories**

<b>Chemical Name</b>	<b>2-Amino-2-Methyl-1-Propanol, (AMP)</b>
<b>TSCA</b>	Listed
<b>DSL</b>	Listed
<b>NDSL</b>	Not Listed
<b>EINECS</b>	Listed
<b>CHINA</b>	Listed
<b>KECL</b>	Listed
<b>JAPAN:</b>	Listed
<b>AICS</b>	Listed

### **EU Regulations**

<b>Annex I Index#</b>	603-070-00-6
<b>Classification</b>	Eye Irrit. 2 Skin Irrit. 2 Aquatic Chronic 3
<b>Risk Phrases</b>	H319: Causes serious eye irritation H315: Causes skin irritation H412: Harmful to aquatic life with long lasting effects

**Safety Phrases**

P264: Wash skin thoroughly after handling.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P273: Avoid release to the environment.

**Symbols and Indications of Danger**

GHS07  
Warning

**Specific Concentration Limits**

DSD Classification: C ≥ 10 % Xi; R36/38 : Irritating to Eyes and Skin

**Export and Import**

This substance is not listed in the Annex I of Regulation (EC) No 649/2012.

**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: 7/31/2014

BluePhos® Phosphatase Substrate Solution B

SDS #: SDS-10305-01

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
BluePhos® Phosphatase Substrate Solution B	50-88-14
BluePhos® Phosphatase Substrate Solution B	50-88-12
BluePhos® Phosphatase Substrate Solution B	50-88-10
BluePhos® Phosphatase Substrate Solution B	50-88-08
BluePhos® Phosphatase Substrate Solution B	50-88-06
BluePhos® Phosphatase Substrate Solution B	50-88-04

### 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

### Emergency Telephone Numbers:

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USA- NATIONAL RESPONSE CENTER	Telephone: (1 ) 800 424 8802	Hours: 24 hours/day, 7 days/week

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Within USA and Canada: 1-800-424-9300 CCN12505 or  
+1 703-527-3887 (collect calls accepted)

## 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 to health or the environment.
<b>Principle Route of Exposure</b>	Not Available
<b>Acute Effects: Eye:</b>	May cause redness and irritation
<b>Acute Effects: Skin:</b>	Dry skin and Irritation may occur
<b>Acute Effects: Inhalation:</b>	May be harmful if inhaled in very large quantities.



SDS #: SDS-10305-01

**Acute Effects: Ingestion:** May be harmful if swallowed.**Chronic Effects:** Not 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>
BluePhos® Phosphatase Substrate Solution B	Not Applicable	Not Applicable	Not Applicable

**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. Seek medical attention if necessary.
<b>Skin Exposure</b>	Rinse with copious amounts of water
<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>	Use extinguishing media appropriate for surrounding fire.
<b>Unusual Fire and Explosive Hazards</b>	Not Available
<b>Flash Point</b>	Not Available
<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>	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

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing.
<b>Environmental Precautions</b>	No special environmental precautions required. Should not be released into the environment.
<b>Method of Containment</b>	Contain spill and then clean-up with copious amounts of water.
<b>Methods of Clean-up</b>	Clean up of spills requires no special equipment or procedures. Clean with copious amounts of water.

SDS #: SDS-10305-01

Other Information Not Available

## 7. HANDLING AND STORAGE

**Handling:** Wear appropriate PPE. Refer to section 8.

**Storage:** Store at 2 – 8°C.

## 8. EXPOSURE CONTROL

**Respiratory Protection** Ventilation, local exhaust, or breathing protection.

**Eye Protection** Safety goggles.

**Skin Protection** Protective gloves. Protective clothing.

**Ingestion** Do not eat, drink, or smoke during work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Yellow Solution
<b>Physical State</b>	Liquid
<b>Odor</b>	Not Available
<b>Odor Threshold</b>	Not Available
<b>pH</b>	Not Available
<b>Boiling Point</b>	Not Available
<b>Evaporation Rate</b>	Not Available
<b>Vapor Density</b>	Not Available
<b>Vapor Pressure</b>	Not Available
<b>Relative Density</b>	Not Available
<b>Auto-Ignition Temperature</b>	Not Available
<b>Water Solubility</b>	Dilutable
<b>Flammability</b>	Not Available
<b>Flash Point</b>	Not Available
<b>Viscosity</b>	Not Available
<b>Oxidizing Properties</b>	Not Available
<b>Explosive Properties</b>	Not Available
<b>Additional Parameters</b>	See Datasheet for other Product Information.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to avoid</b>	Not Available
<b>Incompatibility Materials to Avoid</b>	Not Available
<b>Hazardous Decomposition Products</b>	Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Sulphur Oxides, Hydrogen Chloride gas.
<b>Hazardous Polymerization</b>	Will not occur
<b>Possibility of hazardous reactions</b>	Not Available

## 11. TOXICOLOGY MEASURES

### Acute Toxicity

SDS #: SDS-10305-01

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>	No Data Available
<b>LD50 Dermal</b>	No Data Available
<b>LC50 Inhalation</b>	No Data Available

**Chronic Toxicity**

<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product.
<b>Irritation</b>	No Data Available
<b>Corrosivity</b>	No Data Available
<b>Sensitization</b>	No Data Available
<b>Neurological Effects</b>	No Data Available
<b>Mutagenic Effects</b>	No Data Available
<b>Reproductive Effects</b>	No Data Available
<b>Developmental Effects</b>	No Data Available
<b>Target Organ Effects</b>	No Data Available
<b>Other adverse effects</b>	Not Available

<b>12. ECOLOGICAL MEASURES</b>
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<b>Ecotoxicity</b>	Not Available
<b>Persistence/Degradability</b>	Not Available
<b>Mobility in Environmental Media</b>	Not Available
<b>Bioaccumulation/Accumulation</b>	Not Available

<b>13. DISPOSAL MEASURES</b>
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<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. Dispose of in compliance with the respective national and local regulations.
<b>US EPA Waste Number:</b>	Not Available

<b>14. TRANSPORTATION MEASURES</b>
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<b>DOT:</b>	Not Available
<b>IATA:</b>	Not Available
<b>ADR (road)/ RID (rail):</b>	Not Available
<b>IMDG (sea):</b>	Not Available
<b>General Transport Regulations</b>	Not Available

<b>15. REGULATORY MEASURES</b>
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**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-10305-01

**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)**

This product contains no chemicals 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: Not Listed

**State Right to Know Act**

<b>Chemical Name</b>	<b>Not Applicable</b>
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<b>Massachusetts</b>	Not Applicable
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<b>New Jersey</b>	Not Applicable
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<b>Pennsylvania</b>	Not Applicable
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<b>New York</b>	Not Applicable
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<b>Rhode Island</b>	Not Applicable
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**International Inventories**

<b>Chemical Name</b>	<b>Not Applicable</b>
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<b>TSCA</b>	Not Applicable
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<b>DSL</b>	Not Applicable
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<b>NDSL</b>	Not Applicable
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<b>EINECS</b>	Not Applicable
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<b>CHINA</b>	Not Applicable
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<b>KECL</b>	Not Applicable
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<b>JAPAN:</b>	Not Applicable
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<b>AICS</b>	Not Applicable
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**EU Regulations**

<b>Annex I Index#</b>	Not Applicable
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<b>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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<b>Risk Phrases</b>	Not Applicable
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<b>Safety Phrases</b>	Not Applicable
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<b>Symbols and Indications of Danger</b>	Not Applicable
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<b>Specific Concentration Limits</b>	Not Applicable
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<b>Export and Import</b>	This substance is not listed in the Annex I of Regulation (EC) No 649/2012.
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<b>European Priority List</b>	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.).
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**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: 7/31/2014