

# Safety Data Sheet



Revision Date: 7/31/2014

SDS #: SDS-10152-02

Protein Detector™ ELISA Kit, Anti-Human

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Description:

Protein Detector™ ELISA Kit, Anti-Human  
Protein Detector™ ELISA Kit, Anti-Human  
Protein Detector™ ELISA Kit, Anti-Human

### Product Code

54-62-18  
54-62-15  
54-62-10

### Kit Components:

20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)	
50% Glycerol Solution	50-83-00
ABTS® Peroxidase Stop Solution	50-85-00
Coating Solution	50-84-01
Peroxidase Substrate Solution B	50-65-00
ABTS Microwell Peroxidase 2-Component Substrate Solution A	50-64-00
20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)	50-63-01
10% BSA Diluent/Blocking Solution	50-61-01
HRP, Anti-Human IgG (H+L) Antibody	04-10-06
HRP, Anti-Mouse IgG (H+L) Antibody, Human Serum Adsorbed	04-18-06
HRP, Anti-Rabbit IgG (H+L) Antibody	04-15-06

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

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

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

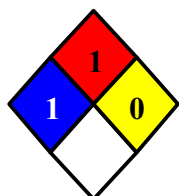
**SDS #: SDS-10152-02**

**Protein Detector™ ELISA Kit, Anti-Human**

**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)

# Material Safety Data Sheet



Revision Date: 10/21/2011

MSDS #: 10162

50-83-00

50% Glycerol Solution

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Description

50% Glycerol Solution

### CATALOG NO.

50-83-00

### **Hazardous Reagent**

50% GLYCEROL 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:** 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

<b>Hazard Type</b>	Health Hazard: Irritant Fire Hazard: Data for 100% Glycerol: Combustible
<b>Principle Route of Exposure</b>	Ingestion, Inhalation and Skin contact.
<b>Acute Effects: Eye:</b>	May cause redness and Irritation
<b>Acute Effecta: Skin:</b>	Dry skin.
<b>Acute Effects: Inhalation:</b>	Data for 100% Glycerol: Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly on spraying.
<b>Acute Effects: Ingestion:</b>	Diarrhoea.
<b>Chronic Effects:</b>	Not Available
<b>Additional Information</b>	Not Available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
50% Glycerol Solution	GLYCEROL	59%	56-81-5

### 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>	Water spray. Alcohol-resistant foam. Dry powder. Carbon dioxide
<b>Unusual Fire and Explosive Hazards</b>	Data for 100% Glycerol: In case of fire: keep drums, etc., cool by spraying with water.
<b>Flash Point</b>	Data for 100% Glycerol: 176°C c.c.
<b>Autoignition Temperature</b>	Data for 100% Glycerol: 393°C
<b>Flammability Statement</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.
<b>Specific hazards arising from the chemical</b>	Upon evaporation of water, glycerol may omit toxic fumes under fire conditions. In the event of fire and/or explosion do not breathe fumes.
<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 liquid in covered containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place.
<b>Methods of Clean-up</b>	Clean-up with copious amounts of water.
<b>Other Information</b>	Not Applicable

### 7. HANDLING AND STORAGE

**Handling:** Store at 4°C, refrigerated.

**Storage:** Separated from strong oxidants.

## 8. EXPOSURE CONTROL

<b>Respiratory Protection</b>	Ventilation.
<b>Eye Protection</b>	Safety goggles.
<b>Skin Protection</b>	Protective gloves and clothing required
<b>Ingestion</b>	Do not eat, drink, or smoke during work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear Colorless 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>	Data for 100% Glycerol: 290°C
<b>Evaporation Rate</b>	Not Applicable
<b>Vapor Density</b>	Data for 100% Glycerol: 3.2
<b>Vapor Pressure</b>	Data for 100% Glycerol: 0.01
<b>Relative Density</b>	Data for 100% Glycerol: 1.26
<b>Auto-Ignition Temperature</b>	Data for 100% Glycerol: 393°C
<b>Water Solubility</b>	Dilutable
<b>Flammability</b>	Data for 100% Glycerol: 393°C
<b>Flash Point</b>	Data for 100% Glycerol: 176°C c.c.
<b>Viscosity</b>	Viscous
<b>Oxidizing Properties</b>	Not Applicable
<b>Explosive Properties</b>	Data for 100% Glycerol: 2.6 - 11.3
<b>Additional Parameters</b>	Not Applicable

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Conditions to avoid</b>	Data for 100% Glycerol: NO open flames.
<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>	Data for 100% Glycerol: Reacts with strong oxidants causing fire and explosion hazard.

## 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% Glycerol: LD50 oral rat: 12600 mg/kg Reference: Federation Proceedings, Federation of American Societies for Experimental Biology. Vol. 4, Pg. 142, 1945.
<b>LD50 Dermal</b>	Data for 100% Glycerol: LD50 dermal rat/rabbit: > 10000 mg/kg Species: Rabbit Reference: BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. Vol. 9-4/1970,
<b>LC50 Inhalation</b>	Not Available
<b><u>Chronic Toxicity</u></b>	
<b>Carcinogenicity</b>	Not Applicable
<b>Irritation</b>	Yes - May Occur
<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 applicable.

## 12. ECOLOGICAL MEASURES

<b>Ecotoxicity</b>	Data for 100% Glycerol: Toxicity threshold (cell multiplication inhibition test) Algae ( <i>Microcystis aeruginosa</i> ) 2900 mg/l ; Protozoa ( <i>Entosiphon sulcatum</i> ) 3200 mg/l ; LC50 Goldfish >5000 mg/l/24 hr - modified ASTM D 1345 [Verschuere, K. Handbook of Environmental Data of Organic Chemicals. 2nd ed. New York, NY: Van Nostrand Reinhold Co., 1983., p. 695]
<b>Persistence/Degradability</b>	Data for 100% Glycerol: Readily biodegradable
<b>Mobility in Environmental Media</b>	Data for 100% Glycerol: Very high mobility in soil [Swann RL et al; Res Rev 85: 17-28 (1983)]
<b>Bioaccumulation/Accumulation</b>	Not expected

## 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 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 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 Title 40n 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 chemical or 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: None Listed

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

**Chemical Name** GLYCEROL

**Massachusetts** Not Listed  
**New Jersey** Not Listed  
**Pennsylvania** Not Listed  
**New York** Not Listed  
**Rhode Island** Not Listed

### **International Inventories**

**Chemical Name** GLYCEROL

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

**EU Regulations**

<b>Annex I Index#</b>	Not Applicable
<b>Classification</b>	Not Applicable
<b>Risk Phrases</b>	Not Applicable
<b>Safety Phrases</b>	Not Applicable
<b>Symbols and Indications of Danger</b>	Not Applicable
<b>Specific Concentration Limits</b>	Not Applicable
<b>Export and Import</b>	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.
<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.).

**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: 6/30/2014

ABTS® Peroxidase Stop Solution

SDS #: SDS-10184-03

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
ABTS® Peroxidase Stop Solution	50-85-02
ABTS® Peroxidase Stop Solution	50-85-00

**Hazardous Reagent**  
ABTS® Peroxidase Stop Solution, 5% SDS

**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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+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>	The substance can be absorbed into the body through the skin and by ingestion .
<b>Acute Effects: Eye:</b>	Redness
<b>Acute Effects: Skin:</b>	Skin Irritant
<b>Acute Effects: Inhalation:</b>	Data for 100% Sodium Dodecyl Sulfate: Sore throat, Cough.
<b>Acute Effects: Ingestion:</b>	Data for 100% Sodium Dodecyl Sulfate: Nausea, vomiting and diarrhoea.
<b>Chronic Effects:</b>	Data for 100% Sodium Dodecyl Sulfate: EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis.

SDS #: SDS-10184-03

Additional Information

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
ABTS® Peroxidase Stop Solution	Dodecyl Sulfate, Sodium Salt	5%	151-21-3

**GHS Classification** Not Available

**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>	Flush skin 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>	Foam, Alcohol Foam, CO2, Dry Chemical and Water/Fog
<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 Flammable
<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>	Data for 100% Dodecyl Sulfate, Sodium Salt: Particulate filter adapted to the airborne concentration of the substance.
<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>	Clean-up with copious amounts of water.
<b>Other Information</b>	Not Available

**7. HANDLING AND STORAGE**

**Handling:** Handle in accordance with good industrial hygiene and safety practice.

SDS #: SDS-10184-03

Storage: Store at room temperature.

## 8. EXPOSURE CONTROL

<b>Respiratory Protection</b>	Ventilation, local exhaust, or breathing protection
<b>Eye Protection</b>	Safety goggles. Safety spectacles
<b>Skin Protection</b>	Wear appropriate personal protective clothing to prevent skin contact and protective gloves.
<b>Ingestion</b>	Do not eat, drink, or smoke during work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless solution at room temperature. White solid at refrigerated temperatures.
<b>Physical State</b>	Liquid at RT
<b>Odor</b>	Data for 100% Dodecyl Sulfate, Sodium Salt: Faint odor of fatty substances
<b>Odor Threshold</b>	Not Available
<b>pH</b>	Not Available
<b>Boiling Point</b>	100°C/212°F (water)
<b>Evaporation Rate</b>	Not Available
<b>Vapor Density</b>	Not Available
<b>Vapor Pressure</b>	Not Available
<b>Relative Density</b>	Data for 100% Dodecyl Sulfate, Sodium Salt: 400-600 kg/m <sup>3</sup>
<b>Auto-Ignition Temperature</b>	Not Available
<b>Water Solubility</b>	Data for 100% Dodecyl Sulfate, Sodium Salt: g/100 ml at 20°C: 15 (moderate)
<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>	Not Available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to avoid</b>	Data for 100% Dodecyl Sulfate, Sodium Salt: The substance decomposes on burning producing toxic and corrosive gases including carbon monoxide (See ICSC 0023, 0074 and 1202). Reacts with strong oxidants and strong acids .
<b>Incompatibility Materials to Avoid</b>	Data for 100% Dodecyl Sulfate, Sodium Salt: Strong oxidants and strong acids .
<b>Hazardous Decomposition Products</b>	Not Available
<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% Dodecyl Sulfate, Sodium Salt: LD50 Rat 977 mg/Kg bw (Acutely Toxic)
<b>LD50 Dermal</b>	Data for 100% Dodecyl Sulfate, Sodium Salt: LD50 Rabbit 580 mg/Kg bw (Acutely toxic)

SDS #: SDS-10184-03

LC50 Inhalation Not Available

**Chronic Toxicity**

Carcinogenicity Not Available

Irritation Data for 100% Dodecyl Sulfate, Sodium salt: Risk Phrases - R36/37/38 Irritating to eyes, respiratory system and skin; R 21/22 Harmful in contact with skin and if swallowed

Corrosivity Not Available

Sensitization Data for 100% Dodecyl Sulfate, Sodium salt: May produce Allergic sensitivity reactions

Neurological Effects Not Available

Mutagenic Effects Not Available

Reproductive Effects Not Available

Developmental Effects Not Available

Target Organ Effects Not Available

Other adverse effects Not Available

**12. ECOLOGICAL MEASURES**

Ecotoxicity Data for 100% Dodecyl Sulfate, Sodium Salt: Fish (Fundulus heteroclitus) Static 96hr LC50 1.2 mg/L (Slightly harmful in the aquatic environment or are otherwise designed for biocidal action)

Persistence/Degradability Data for 100% Dodecyl Sulfate, Sodium Salt: Rapidly degradable

Mobility in Environmental Media Not Available

Bioaccumulation/ Accumulation Data for 100% Dodecyl Sulfate, Sodium Salt: Fish (Proterorhinus marmoratus 240 day 15°C 4 mg/L BCF 7.15 (Not bioaccumulative)

**13. DISPOSAL MEASURES**

Waste Disposal Method: Data for 100% Dodecyl Sulfate, Sodium Salt: Personal protection: particulate filter adapted to the airborne concentration of the substance. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Do NOT let this chemical enter the environment.

Contaminated Packaging: Not Available

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).**

**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

SDS #: SDS-10184-03

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

**State Right to Know Act**

<b>Chemical Name</b>	<b>Dodecyl Sulfate, Sodium Salt</b>
<b>Massachusetts</b>	Not Listed
<b>New Jersey</b>	Not Listed
<b>Pennsylvania</b>	Not Listed
<b>New York</b>	Not Listed
<b>Rhode Island</b>	Not Listed

**International Inventories**

<b>Chemical Name</b>	<b>Dodecyl Sulfate, Sodium Salt</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>	Not Available
<b>Classification</b>	Not Available
<b>Risk Phrases</b>	Not Available
<b>Safety Phrases</b>	Not Available
<b>Symbols and Indications of Danger</b>	Not Available
<b>Specific Concentration Limits</b>	Not Available
<b>Export and Import</b>	Data for 100% Dodecyl Sulfate, Sodium Salt: This substance is not listed in the Annex I of Regulation (EC) No 689/2008.
<b>European Priority List</b>	Data for 100% Dodecyl Sulfate, Sodium Salt : 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: 7/30/2014

Coating Solution

SDS #: SDS-10323-01

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
Coating Solution	50-84-01
Coating Solution	50-84-00

**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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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.
<b>Acute Effects: Ingestion:</b>	May be harmful if swallowed.
<b>Chronic Effects:</b>	Not Available
<b>Additional Information</b>	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>
Coating Solution	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.
<b>Other Information</b>	Not Available

### 7. HANDLING AND STORAGE



SDS #: SDS-10323-01

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

**Storage:** Store at 2 – 8°C.

## 8. EXPOSURE CONTROL

<b>Respiratory Protection</b>	Ventilation, local exhaust, or breathing protection.
<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>	Cloudy White Solution
<b>Physical State</b>	Liquid
<b>Odor</b>	Not Available
<b>Odor Threshold</b>	Not Available
<b>pH</b>	8.6 - 9.2
<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

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

SDS #: SDS-10323-01

LC50 Inhalation No Data Available

**Chronic Toxicity**

Carcinogenicity There are no known carcinogenic chemicals in this product.

Irritation No Data Available

Corrosivity No Data Available

Sensitization No Data Available

Neurological Effects No Data Available

Mutagenic Effects No Data Available

Reproductive Effects No Data Available

Developmental Effects No Data Available

Target Organ Effects No Data Available

Other adverse effects Not Available

**12. ECOLOGICAL MEASURES**

Ecotoxicity Not Available

Persistence/Degradability Not Available

Mobility in Environmental Media Not Available

Bioaccumulation/Accumulation Not Available

**13. DISPOSAL MEASURES**

Waste Disposal Method: Observe all Federal, State and Local laws 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 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).****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)**

**SDS #: SDS-10323-01**

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**

**Chemical Name**    **Not Applicable**

**Massachusetts**    Not Applicable

**New Jersey**    Not Applicable

**Pennsylvania**    Not Applicable

**New York**    Not Applicable

**Rhode Island**    Not Applicable

**International Inventories**

**Chemical Name**    **Not Applicable**

**TSCA**    Not Applicable

**DSL**    Not Applicable

**NDSL**    Not Applicable

**EINECS**    Not Applicable

**CHINA**    Not Applicable

**KECL**    Not Applicable

**JAPAN:**    Not Applicable

**AICS**    Not Applicable

**EU Regulations**

**Annex I Index#**    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: 7/30/2014

# Safety Data Sheet



Revision Date: 7/4/2014

SDS #: 10143

Peroxidase Substrate Solution B

## 1. PRODUCT AND COMPANY IDENTIFICATION

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

### Hazardous Reagent

None

### Hazardous Reagent Product code

None

**Recommended Use** Reagent

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

**Phone #:** 1-301-948-7755  
**Fax #:** 1-301-948-0169  
**Web:** www.kpl.com  
**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)

## 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 Applicable
<b>Acute Effects: Eye:</b>	Not Applicable
<b>Acute Effects: Skin:</b>	Not Applicable
<b>Acute Effects: Inhalation:</b>	Not Applicable
<b>Acute Effects: Ingestion:</b>	Not Applicable
<b>Chronic Effects:</b>	Not Applicable
<b>Additional Information</b>	Not Applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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

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

### 5. FIRE FIGHTING MEASURES

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

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing.
<b>Environmental Precautions</b>	Not Applicable
<b>Method of Containment</b>	Containment of spills requires no special equipment or procedures. Cover with absorbent.
<b>Methods of Clean-up</b>	Clean up of spills requires no special equipment or procedures. Clean with copious amounts of water.
<b>Other Information</b>	Not Applicable

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Wear appropriate PPE.
<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/NIDSH approved respirator suitable for vapor or mist concentrations encountered.
<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, Colorless Solution. Relatively free of particulate matter
<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

Additional Parameters Not Available

**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 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 Applicable
<b>LD50 Dermal</b>	Not Applicable
<b>LC50 Inhalation</b>	Not Applicable

**Chronic Toxicity**

<b>Carcinogenicity</b>	Not Applicable
<b>Irritation</b>	Not Applicable
<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 Applicable

**12. ECOLOGICAL MEASURES**

<b>Ecotoxicity</b>	Not Applicable
<b>Persistence/Degradability</b>	Not Applicable
<b>Mobility in Environmental Media</b>	Not Applicable



**Bioaccumulation/  
Accumulation** Not Applicable

### 13. DISPOSAL MEASURES

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

**Contaminated Packaging:** Not Applicable

**US EPA Waste Number:** Not Applicable

### 14. TRANSPORTATION MEASURES

**DOT:** Not Regulated

**IATA:** Not Regulated

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

**IMDG (sea):** Not Regulated

**General Transport Regulations** Not Applicable

### 15. REGULATORY MEASURES

**This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 (OSHA HCS).**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

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

Not Available

**State Regulations**

**California Proposition 65:**

This product contains the following Proposition 65 chemicals: Not Listed

**State Right to Know Act**

**Chemical Name** Not Applicable

**Massachusetts** Not Applicable

**New Jersey** Not Applicable

**Pennsylvania** Not Applicable

**New York** Not Applicable

**Rhode Island** Not Applicable

**International Inventories**

**Chemical Name** Not Applicable

SDS #: 10143

Peroxidase Substrate Solution B

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

**EU Regulations**

**Annex I Index#**

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

**Risk Phrases** Not Applicable

**Safety Phrases** Not Applicable

**Symbols and Indications of Danger** Not Applicable

**Specific Concentration Limits** Not Applicable

**Export and Import** This substance is not listed in the Annex I of Regulation (EC) No 689/2008.

**European Priority List** This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

**16. OTHER INFORMATION**

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

Revision Date: 7/4/2014

# Safety Data Sheet



Revision Date: 7/30/2014

ABTS Microwell Peroxidase Substrate Solution A

SDS #: SDS-10147-02

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Description:**

ABTS Microwell Peroxidase 2-Component Substrate Solution A

**Product Code**

50-64-00

50-64-09

50-64-02

**Hazardous Reagent**

ABTS Microwell Peroxidase Substrate Solution A

**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
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)

## 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 classified as hazardous to health or the environment.

Data for 100% Cacodylic Acid:- Cacodylic Acid is a CARCINOGEN. HANDLE WITH EXTREME CAUTION. There may be no safe level of exposure to a carcinogen, so all contact should be reduced to the lowest possible level.

**Principle Route of Exposure**

Data for 100% Cacodylic Acid:- Skin, Eye, Inhalation and Ingestion

SDS #: SDS-10147-02

- Acute Effects: Eye:** May cause irritation, burns, and red, watery eyes.
- Acute Effects: Skin:** May be absorbed. May cause irritation, burns, itching, rash and loss of pigment.
- Acute Effects: Inhalation:** May irritate the nose and throat.
- Acute Effects: Ingestion:** May cause nausea, vomiting and drowsiness
- Chronic Effects:** Data for 100% Cacodylic Acid:- Cacodylic Acid is a CARCINOGEN in humans. There is evidence that Arsenic and Arsenic compounds cause bladder, lung, and skin cancer in humans. There is limited evidence that Cacodylic Acid is a teratogen in animals. Until further testing has been done, it should be treated as a possible teratogen in humans. Repeated skin contact can cause thickened skin and/or patchy areas of darkening and loss of pigment. Some persons may develop white lines on the nails. Long-term exposure can cause an ulcer or hole in the "bone" (septum) dividing the inner nose, hoarseness and sore eyes. Cacodylic Acid may damage the nervous system causing numbness, "pins and needles," and/or weakness in the hands and feet. Cacodylic Acid may damage the liver.

**Additional Information** ABTS Substrate solution contains less than 0.01% carcinogen. Data for 100% Cacodylic Acid:- Cacodylic Acid is a CARCINOGEN in humans. There may be no safe level of exposure to a carcinogen, so all contact should be reduced to the lowest possible level.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
ABTS Microwell Peroxidase Substrate Solution A	Cacodylic Acid	<0.01%	75-60-5

**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** Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician.
- Oral Exposure** Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Rest. Refer for medical attention.
- Inhalation Exposure** Fresh air, rest.
- Skin Exposure** Remove all contaminated clothes and shoes. Rinse skin with plenty of water or shower.
- 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, CO2, Dry Chemical and Water/Fog
- Unusual Fire and Explosive Hazards** May emit toxic fumes under fire conditions.

SDS #: SDS-10147-02

**Flash Point** Not Available

**Autoignition Temperature** Not Available

**Flammability Statement** Not Available

**Specific hazards arising from the chemical** Data for 100% Cacodylic Acid:- Poisonous gasses are produced in fire. Does not burn.

**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** DO NOT wash into sewer. It may be necessary to contain and dispose of Cacodylic Acid as a HAZARDOUS WASTE. Contact your state Department of Environmental Protection (DEP) or your regional office of the federal Environmental Protection Agency (EPA) for specific recommendations.

**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** Moisten spilled material first or use a HEPA-filter vacuum for clean-up and deposit in sealed containers. Ventilate and wash area after clean-up is complete.

**Other Information** Data for 100% Cacodylic Acid:- Evacuate personnel and secure and control entrance to the area. Eliminate all ignition sources.

## 7. HANDLING AND STORAGE

**Handling:** Handle in accordance with good industrial hygiene and safety practice.

**Storage:** Store at 2-8 °C separated from strong oxidants.

## 8. EXPOSURE CONTROL

**Respiratory Protection** Ventilation, local exhaust, or breathing protection. Data for 100% Cacodylic Acid:- Where the potential exists for exposure under 0.5 mg/m<sup>3</sup> (as Arsenic), use a NIOSH approved negative pressure, air purifying, particulate filter respirator. Where the potential exists for exposure over 0.5 mg/m<sup>3</sup> (as Arsenic), use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus operated in a pressure-demand or other positivepressure mode.

**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

**Physical State** Liquid

SDS #: SDS-10147-02

Odor	Not Available
Odor Threshold	Not Available
pH	3.85 - 4.15
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	See Datasheet for product specific information.

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Conditions to avoid	Not Available
Incompatibility Materials to Avoid	Not Available
Hazardous Decomposition Products	Not Available
Hazardous Polymerization	Will not occur
Possibility of hazardous reactions	Not Available

## 11. TOXICOLOGY MEASURES

### Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

LD50 Oral	Acute oral toxicity (LD50): 644 mg/kg [Rat].
LD50 Dermal	Not Available
LC50 Inhalation	Not Available

### Chronic Toxicity

Carcinogenicity	Data for 100% Cacodylic Acid:- A carcinogen in humans.
Irritation	Data for 100% Cacodylic Acid:- An eye, skin and respiratory irritant
Corrosivity	Not Applicable
Sensitization	Not applicable.
Neurological Effects	Data for 100% Cacodylic Acid:- may damage the nervous system

SDS #: SDS-10147-02

<b>Mutagenic Effects</b>	Not applicable.
<b>Reproductive Effects</b>	Data for 100% Cacodylic Acid:- There is limited evidence that Cacodylic Acid is a teratogen in animals. Until further testing has been done, it should be treated as a possible teratogen in humans.
<b>Developmental Effects</b>	Not applicable.
<b>Target Organ Effects</b>	Eyes, Skin, Respiratory, Nervous System and Liver
<b>Other adverse effects</b>	Not applicable.

**12. ECOLOGICAL MEASURES**

<b>Ecotoxicity</b>	The following environmental classifications according to the Preparation Directive 1999/45/EC apply additionally to the indicated concentrations of the substance: 0,25%≤C<2,5% - R52/53 (Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment)
<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. 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.
<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>	Data for 100% Cacodylic Acid:- U136

**14. TRANSPORTATION MEASURES**

<b>DOT:</b>	Data for 100% Cacodylic Acid:- DOT Classification: CLASS 6.1: Poisonous material. UN1572 PG: II Special Provisions for Transport: Marine Pollutant
<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

**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**

**SDS #: SDS-10147-02**

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)**

This product contains no chemical or 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: Cacodylic Acid - Cancer Listed May 1, 1996

**State Right to Know Act**

**Chemical Name**    **Cacodylic Acid**

**Massachusetts**    Listed  
**New Jersey**        Listed  
**Pennsylvania**      Listed  
**New York**            Listed  
**Rhode Island**      Listed

**International Inventories**

**Chemical Name**    **Cacodylic Acid**

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

**EU Regulations**

**Annex I Index#**            033-002-00-5 Arsenic compounds, with the exception of those specified elsewhere in this Annex.

**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



SDS #: SDS-10147-02

**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.).

<b>16. OTHER INFORMATION</b>
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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: 7/30/2014

# 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

**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)

## 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: 6/27/2014

SDS #: 10106

10% BSA DILUENT/BLOCKING SOLUTION

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description	Product Code
10% BSA DILUENT/BLOCKING SOLUTION	50-61-00
	50-61-01
	50-61-10
	SPL-BSA

**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:

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)

## 2. HAZARD IDENTIFICATION

<b>Hazard Type</b>	Not Hazardous
<b>Principle Route of Exposure</b>	The substance can be absorbed into the body by inhalation, through the skin and by ingestion.
<b>Acute Effects: Eye:</b>	May cause redness and irritation
<b>Acute Effecta: Skin:</b>	Absorption through skin may occur. May cause irritation to the skin
<b>Acute Effects: Inhalation:</b>	May cause irritation to the respiratory tract.



SDS #: 10106

10% BSA DILUENT/BLOCKING SOLUTION

**Acute Effects: Ingestion:** May be harmful if swallowed.

**Chronic Effects:**

**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>
10% BSA DILUENT/BLOCKING SOLUTION	Sodium Phosphate, Dibasic (Anhydrous)	<2%	7558-79-4
<b>GHS Classification</b>	Not Applicable		

### 4. FIRST AID MEASURES

<b>General Advice</b>	Not Applicable
<b>Oral Exposure</b>	Rinse mouth
<b>Inhalation Exposure</b>	Not Applicable
<b>Skin Exposure</b>	Rinse with copious amounts of water
<b>Eye Exposure</b>	Rinse with copious amounts of water

### 5. FIRE FIGHTING MEASURES

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

SDS #: 10106

10% BSA DILUENT/BLOCKING SOLUTION

<b>Method of Containment</b>	Containment of spills requires no special equipment or procedures.
<b>Methods of Clean-up</b>	Clean up of spills requires no special equipment or procedures. Clean with copious amounts of water.
<b>Other Information</b>	Not Applicable

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Keep container tightly closed.
<b>Storage:</b>	Store refrigerated (2 – 8°C) to minimize the risk of biological contamination. If crystals appear upon refrigeration, warm the bottle to 37°C with mixing to dissolve.

## 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 or drink

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Yellowish - Precipitation/ Crystalization may occur
<b>Physical State</b>	Liquid
<b>Odor</b>	Not Applicable
<b>Odor Threshold</b>	Not Applicable
<b>pH</b>	7.0 - 8.0
<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>	Semi Visous
<b>Oxidizing Properties</b>	Not Applicable
<b>Explosive Properties</b>	Not Applicable
<b>Additional Parameters</b>	See Datasheet for other Product Information.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Conditions to avoid</b>	Not Available

<b>Incompatibility Materials to Avoid</b>	Not Available
<b>Hazardous Decomposition Products</b>	None
<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 Applicable
<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 Applicable

## 12. ECOLOGICAL MEASURES

<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

## 13. DISPOSAL MEASURES

<b>Waste Disposal Method:</b>	May be disposed via sanitary sewer.
<b>Contaminated Packaging:</b>	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 (OSHA HCS).**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

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

Not Listed

### **State Regulations**

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

This product contains the following Proposition 65 chemicals: None Listed

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

Chemical Name	Sodium Phosphate, Dibasic (Anhydrous)
Massachusetts	Listed
New Jersey	Listed
Pennsylvania	Listed
New York	Listed
Rhode Island	Listed

### **International Inventories**

Chemical Name	Sodium Phosphate, Dibasic (Anhydrous)
TSCA	Listed
DSL	Listed
NDSL	Not Listed
EINECS	Listed
CHINA	Listed
KECL	Listed
JAPAN:	Listed
AICS	Listed

**EU Regulations**

<b>Annex I Index#</b>	Not Applicable
<b>Classification</b>	Not Applicable
<b>Risk Phrases</b>	Not Applicable
<b>Safety Phrases</b>	Not Applicable
<b>Symbols and Indications of Danger</b>	
<b>Specific Concentration Limits</b>	Not Applicable
<b>Export and Import</b>	Not Applicable
<b>European Priority List</b>	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.