

# Safety Data Sheet



Revision Date: 7/31/2014

SDS #: SDS-10287-02

LumiGLO Reserve™ Western Blotting Substrate

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Description:

LumiGLO Reserve™ Western Blotting Substrate

### Product Code

54-71-02

### Kit Components:

LumiGLO Reserve™ Chemiluminescent Substrate Solution A 54-69-02

20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20) 50-63-03

LumiGLO Reserve™ Chemiluminescent Substrate Solution B 54-70-02

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

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

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

### Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER  
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

### CHEMTREC:

CHEMTREC Customer Number:- CCN12505\*  
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 CCN12505 or  
+1 703-527-3887 (collect calls accepted)

# Safety Data Sheet



Revision Date: 7/31/2014

SDS # SDS-10129-03

LumiGLO Reserve™ Chemiluminescent Substrate Solution A

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Description:

LumiGLO Reserve™ Chemiluminescent Substrate Solution A

### Product Code

54-69-00

54-69-02

54-69-01

SPL-LGR-A

### Hazardous Reagent

LumiGLO Reserve™ Chemiluminescent 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

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## 2. HAZARD IDENTIFICATION

**Hazard Type**

Health Hazard.

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

**GHS Classification**

GHS Classification: Acute toxicity, Category 4, oral; H302 | Skin sensitisation, Category 2; H315 | Eye Irrit. 2: H319 | STOT SE 3: H335

**Hazard Statements:**

H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

**Precautionary Statements:**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280: Wear protective gloves/eye protection/face protection.  
P302 + P350: IF ON SKIN: Gently wash with plenty of soap and water.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.  
 P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Symbols and Indications of Danger:**

GHS07  
 Warning



<b>Principle Route of Exposure</b>	The substance can be absorbed into the body through skin, eyes and ingestion.
<b>Acute Effects: Eye:</b>	May cause redness and irritation
<b>Acute Effects: Skin:</b>	Irritation may occur
<b>Acute Effects: Inhalation:</b>	Not Applicable
<b>Acute Effects: Ingestion:</b>	May cause Abdominal pain. Dizziness. Headache. Nausea. Vomiting
<b>Chronic Effects:</b>	Contains material which cause damage to the following organs: kidneys, Central Nervous System, liver, Reproductive System, skin and eyes.

**Additional Information**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
LumiGLO Reserve™ Chemiluminescent Substrate Solution A	Proprietary Ingredient 1	<3%	Proprietary (Classified - see classification)
	Proprietary Ingredient 2	<3%	Proprietary (Not Classified)

**GHS Classification** GHS Classification: Acute toxicity, Category 4, oral; H302 | Skin sensitisation, Category 2; H315 | Eye Irrit. 2: H319 | STOT SE 3: H335

### 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. Do NOT induce vomiting. Give plenty of water to drink. Rest. Refer for medical attention.
<b>Inhalation Exposure</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If discomfort persists, obtain medical attention.
<b>Skin Exposure</b>	Flush with copious amounts of 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>	Dry Chemical extinguishers, water spray or foam.
<b>Unusual Fire and Explosive Hazards</b>	None special.

Flash Point	Not Available
Autoignition Temperature	Not Applicable
Flammability Statement	Not Flammable
Specific hazards arising from the chemical	Not Applicable
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, eyes and clothing.
Environmental Precautions	No special environmental precautions required. Should not be released into the environment.
Method of Containment	Collect leaking and spilled liquid in sealable containers as far as possible.
Methods of Clean-up	Contain spill and then clean-up with copious amounts of water.
Other Information	Not Applicable

## 7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice.
Storage:	Store at 2 – 8°C. Keep lid closed tightly.

## 8. EXPOSURE CONTROL

Respiratory Protection	None required if good ventilation is maintained.
Eye Protection	Safety goggles.
Skin Protection	Industrial strength Neoprene or Nitrile chemical resistant glove. Laboratory apron or equivalent.
Ingestion	Do not eat, drink, or smoke during work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to light pink, colorless, odorless liquid
Physical State	Liquid
Odor	None
Odor Threshold	Not Available
pH	9.35 - 9.85
Boiling Point	Not Available
Evaporation Rate	Not Available
Vapor Density	Not Available
Vapor Pressure	Not Available
Relative Density	Not Available
Auto-Ignition Temperature	Aqueous
Water Solubility	Not Available
Flammability	Not Flammable
Flash Point	Not Available
Viscosity	Not Available
Oxidizing Properties	Not an Oxidizer
Explosive Properties	Not an Explosive

Additional Parameters

Not Available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to avoid</b>	Protect from direct UV light, avoid elevated temperatures.
<b>Incompatibility Materials to Avoid</b>	Oxidizing agents, combustible materials, organic materials, acids, alkalis and metals.
<b>Hazardous Decomposition Products</b>	None Known
<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>	Proprietary Ingredient 1: Acute Oral Toxicity (LD50): >3000 mg/kg [rat] Proprietary Ingredient 2: Acute Oral Toxicity (LD50): 4000 mg/kg [rat]
<b>LD50 Dermal</b>	Proprietary Ingredient 2: Acute Dermal Toxicity (LD50): 10626 mg/kg [rabbit]
<b>LC50 Inhalation</b>	Not Available

### Chronic Toxicity

<b>Carcinogenicity</b>	Not Applicable
<b>Irritation</b>	Proprietary Ingredient 1: Skin: Moderate irritant [rabbit] Skin: Severe irritant [rabbit] Proprietary Ingredient 2: Eyes: Mild irritant [rabbit] Eyes: Moderate irritant [rabbit] Skin: Mild irritant [rabbit]

**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** Kidneys, Central Nervous System, Liver, Reproductive System, Skin and Eyes.

**Other adverse effects** Contains materials which may cause damage to the following organs: Kidneys, Central Nervous System, Liver, Reproductive System, Skin and Eyes.

## 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

**Waste Disposal Method:** Observe all Federal, State, and Local laws concerning health and pollution.

**Contaminated Packaging:** Avoid contact with skin and clothing. Place contaminated packaging in a break proof outer vessel and dispose on in compliance with national and local regulations.

**US EPA Waste Number:** Not Available

### 14. TRANSPORTATION MEASURES

**DOT:** Not Regulated

**IATA:** Not Regulated

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

**IMDG (sea):** Not Regulated

**General Transport Regulations** Not Available

### 15. REGULATORY MEASURES

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

#### **SARA 313**

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

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

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: Not Listed

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

Chemical Name	Proprietary Ingredient
	1
Massachusetts	Listed
New Jersey	Listed
Pennsylvania	Listed
New York	Listed
Rhode Island	Listed

#### **International Inventories**

Chemical Name	Proprietary Ingredient 1
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 Available
<b>Classification</b>	GHS Classification: Acute toxicity, Category 4, oral; H302   Skin sensitisation, Category 2; H315   Eye Irrit. 2: H319   STOT SE 3: H335
<b>Hazard Statements</b>	H302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.
<b>Precautionary Statements</b>	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves/eye protection/face protection. P302 + P350: IF ON SKIN: Gently wash with plenty of soap and water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
<b>Symbols and Indications of Danger</b>	GHS07 Warning
<b>Specific Concentration Limits</b>	Not Available
<b>Export and Import</b>	Not Available
<b>European Priority List</b>	Not available

<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.



# Safety Data Sheet

Revision Date: 6/16/2015

SDS #: SDS-10130-04

LumiGLO Reserve™ Chemiluminescent Substrate Solution B

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Description:

### Product Code

LumiGLO Reserve™ Chemiluminescent Substrate Solution B (Sample)	SPL-LGR-B
LumiGLO Reserve™ Chemiluminescent Substrate Solution B	54-70-02
LumiGLO Reserve™ Chemiluminescent Substrate Solution B	54-70-01
LumiGLO Reserve™ Chemiluminescent Substrate Solution B	54-70-00

### Hazardous Reagent

None

### Hazardous Reagent Product code

Not Applicable

**Recommended Use** Reagent

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

**Phone #:** 1-301-948-7755  
**Fax #:** 1-301-948-0169  
**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

### CHEMTREC:

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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>	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 Effects: Skin:</b>	May be absorbed. Dry skin. Redness.
<b>Acute Effects: Inhalation:</b>	Not Applicable
<b>Acute Effects: Ingestion:</b>	May cause nausea, vomiting and drowsiness
<b>Chronic Effects:</b>	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>
LumiGLO Reserve™ Chemiluminescent Substrate Solution B	Not Applicable	Not Applicable	Not Applicable
<b>GHS Classification</b>	Not Applicable: The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment as per: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Regulation (EC) No 1272/2008		

### 4. FIRST AID MEASURES

<b>General Advice</b>	Wash contaminated clothing before reuse. Consult a physician if irritation persists.
<b>Oral Exposure</b>	Rinse mouth
<b>Inhalation Exposure</b>	Fresh air, rest.
<b>Skin Exposure</b>	Clean skin 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>	Dry Chemical extinguishers, water spray or foam.
<b>Unusual Fire and Explosive Hazards</b>	None special.
<b>Flash Point</b>	Not Available
<b>Autoignition Temperature</b>	Not Applicable
<b>Flammability Statement</b>	Not Flammable
<b>Specific hazards arising from the chemical</b>	Not Applicable
<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, eyes and clothing.
<b>Environmental Precautions</b>	No special environmental precautions required. Should not be released into the environment.
<b>Method of Containment</b>	Collect leaking and spilled liquid in sealable containers as far as possible.
<b>Methods of Clean-up</b>	Contain spill and then clean-up with copious amounts of water.
<b>Other Information</b>	Not Applicable

### 7. HANDLING AND STORAGE

SDS #: SDS-10130-04

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

**Storage:** Store at 2 – 8°C. Keep lid closed tightly.

## 8. EXPOSURE CONTROL

<b>Respiratory Protection</b>	None required if good ventilation is maintained.
<b>Eye Protection</b>	Safety goggles.
<b>Skin Protection</b>	Industrial strength Neoprene or Nitrile chemical resistant glove. Laboratory apron or equivalent.
<b>Ingestion</b>	Do not eat, drink, or smoke during work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless, odorless liquid
<b>Physical State</b>	Liquid
<b>Odor</b>	Odorless
<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>	Not Available
<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>	Protect from direct UV light, avoid elevated temperatures.
<b>Incompatibility Materials to Avoid</b>	Oxidizing agents, combustible materials, organic materials, acids, alkalis and metals.
<b>Hazardous Decomposition Products</b>	None Known
<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

SDS #: SDS-10130-04

LC50 Inhalation Not Available

**Chronic Toxicity**

Carcinogenicity Not Available

Irritation Not Available

Corrosivity Not Available

Sensitization Not Available

Neurological Effects Not Available

Mutagenic Effects Not Available

Reproductive Effects Not Available

Developmental Effects Not Available

Target Organ Effects Not Available

Other adverse effects Not Available

**12. ECOLOGICAL MEASURES**

Ecotoxicity Not Applicable

Persistence/Degradability Not Applicable

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 Available

IATA: Not Available

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

IMDG (sea): Not Available

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)**

SDS #: SDS-10130-04

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**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**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:** 6/16/2015

# Safety Data Sheet



Revision Date: 6/27/2014

SDS #: 10133

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

## 1. PRODUCT AND COMPANY IDENTIFICATION

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

**Hazardous Reagent**

None

**Hazardous Reagent Product code**

None

**Recommended Use** Reagent

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

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

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

**Web:** www.kpl.com

**Email:** kplmsds@seracare.com

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

## 2. HAZARD IDENTIFICATION

**Hazard Type** Not Hazardous

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

**Acute Effects: Eye:** May cause redness and irritation

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

**Acute Effects: Skin:** May be absorbed. Dry skin. Redness.  
**Acute Effects: Inhalation:** Not Applicable  
**Acute Effects: Ingestion:** May cause nausea, vomiting and drowsiness  
**Chronic Effects:** Not Applicable  
**Additional Information** The product contains no substances which at their given concentration, are considered to be hazardous to health.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)	Not Applicable	Not Applicable	Not Applicable
<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

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<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



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**Mobility in Environmental Media** Not Applicable

**Bioaccumulation/ Accumulation** Not Applicable

### 13. DISPOSAL MEASURES

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

**Contaminated Packaging:** Not Applicable

**US EPA Waste Number:** Not Applicable

### 14. TRANSPORTATION MEASURES

**DOT:** Not Regulated

**IATA:** Not Regulated

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

**IMDG (sea):** Not Regulated

**General Transport Regulations** Not Applicable

### 15. REGULATORY MEASURES

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

#### **SARA 313**

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

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

N/A

#### **State Regulations**

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

This product contains the following Proposition 65 chemicals: Not Listed

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

**Chemical Name** Not Applicable

**Massachusetts** Not Applicable

**New Jersey** Not Applicable

**Pennsylvania** Not Applicable

**New York** Not Applicable

**Rhode Island** Not Applicable

#### **International Inventories**

**Chemical Name** Not Applicable

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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.