# Safety Data Sheet



**Revision Date:** 7/31/2014

SDS #: SDS-10284-02

## SIGNALOCK™ HRP CHEMIWESTERN KIT (FILM)

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description: Product Code

SIGNALOCK<sup>TM</sup> HRP CHEMIWESTERN KIT (FILM) 54-53-00

**Kit Components:** 

LumiGLO Reserve™ Chemiluminescent 54-69-02

Substrate Solution A

SIGNALOCK™ BLOCKING SOLUTION 50-58-00

LumiGLO Reserve™ Chemiluminescent 54-70-02

Substrate Solution B

20X Wash Solution Concentrate (Imidazole 50-63-03

Buffered Saline with Tween 20)

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

Contact Manufacturer KPL, Inc. Phone #: 1-301-948-7755

910 Clopper Road Fax #: 1-301-948-0169
Gaithersburg, Maryland 20878 Web: www.kpl.com
USA Email: kplmsds@seracare.com

**Emergency Telephone Numbers:** 

AUSTRALIA – POISONS INFORMATION CENTER Telephone: 13 11 26 Hours: 24 hours

CANADIAN TRANSPORT EMERGENCY CENTER
UK – THE NATIONAL FOCUS
USA- NATIONAL RESPONSE CENTER
Telephone: (1 ) 613 996 6666
Telephone: (1 ) 800 424 8802
Telephone: (1 ) 800 424 8802
Telephone: (1 ) 800 424 8802

**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

54-69-00

54-69-01

SPL-LGR-A

**Hazardous Reagent** 

**Hazardous Reagent Product code** 

LumiGLO Reserve™ Chemiluminescent Substrate Solution A

Catalog No. listed above

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Recommended Use Reagent

Contact Manufacturer KPL, Inc. Phone #: 1-301-948-7755

910 Clopper Road
Gaithersburg, Maryland 20878
USA

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

**Emergency Telephone Numbers:** 

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Telephone: (1 ) 613 996 6666

Hours: 24 hours/day, 7 days/week

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 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



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

Acute Effects: Eye: May cause redness and irritation

Acute Effects: Skin: Irritation may occur
Acute Effects: Inhalation: Not Applicable

Acute Effects: Ingestion: May cause Abdominal pain. Dizziness. Headache. Nausea. Vomiting

Chronic Effects: 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

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

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

General Advice Wash contaminated clothing before reuse. Consult a physician if irritation persists

Oral Exposure Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Rest. Refer for medical

attention.

Inhalation Exposure If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If discomfort persists, obtain medical attention.

**Skin Exposure** Flush with copious amounts of 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** Dry Chemical extinguishers, water spray or foam.

**Unusual Fire and Explosive** 

**Hazards** 

None special.

Flash Point Not Available

**Autoignition Temperature** Not Applicable

Flammability Statement Not Flammable

Specific hazards arising from Not Applicable

the chemical

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.

Store at  $2 - 8^{\circ}$ C. Keep lid closed tightly. Storage:

## 8. EXPOSURE CONTROL

**Respiratory Protection** None required if good ventilation is maintained.

Safety goggles. **Eye Protection** 

**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

Clear to light pink, colorless, odorless liquid **Appearance** 

**Physical State** Liquid Odor None

**Odor Threshold** Not Available pН 9.35 - 9.85**Boiling Point** Not Available **Evaporation Rate** Not Available Vapor Density Not Available Not Available Vapor Pressure Not Available **Relative Density Auto-Ignition Temperature** Aqueous **Water Solubility** Not Available **Flammability** Not Flammable Flash Point Not Available Viscosity Not Available Not and Oxidizer **Oxidizing Properties Explosive Properties** Not an Explosive

**Additional Parameters** Not Available

# 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions

Conditions to avoid Protect from direct UV light, avoid elevated temperatures.

Incompatibility Materials to

Avoid

Oxidizing agents, combustible materials, organic materials, acids, alkalis and metals.

**Hazardous Decomposition** 

**Products** 

None Known

**Hazardous Polymerization** Will not occur Possibility of hazardous

reactions

Not Applicable

# 11. TOXICOLOGY MEASURES

## **Acute Toxicity**

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

LD50 Oral Proprietary Ingredient 1: Acute Oral Toxicity (LD50): >3000 mg/kg [rat]

Proprietary Ingredient 2: Acute Oral Toxicity (LD50): 4000 mg/kg [rat]

**LD50 Dermal** Proprietary Ingredient 2: Acute Dermal Toxicity (LD50): 10626 mg/kg [rabbit]

LC50 Inhalation Not Available

**Chronic Toxicity** 

Carcinogenicity Not Applicable

Irritation 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.

Contains materials which may cause damage to the following organs: Kidneys, Central Other adverse effects

Nervous System, Liver, Reproductive System, Skin and Eyes.

# 12. ECOLOGICAL MEASURES

**Ecotoxicity** Not available. Not available.

Persistence/Degradability **Mobility in Environmental** 

Media

Not available.

Bioaccumulation/

Not available.

Accumulation

## 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 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

MassachusettsListedNew JerseyListedPennsylvaniaListedNew YorkListedRhode IslandListed

#### **International Inventories**

Chemical Name Proprietary Ingredient 1

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

#### **EU Regulations**

Annex I Index# Not Available

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

**Specific Concentration** 

Limits

Not Available

Export and Import Not Available

European Priority List Not available

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

**LumiGLO Reserve™ Chemiluminescent Substrate Solution B** 

SDS #: SDS-10130-04

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	<b>Product Code</b>	
LumiGLO Reserve <sup>TM</sup> Chemiluminescent Substrate Solution B (Sample)	SPL-LGR-B	
LumiGLO Reserve <sup>TM</sup> Chemiluminescent Substrate Solution B	54-70-02	
LumiGLO Reserve <sup>TM</sup> Chemiluminescent Substrate Solution B	54-70-01	
LumiGLO Reserve <sup>TM</sup> Chemiluminescent Substrate Solution B	54-70-00	

Hazardous Reagent Hazardous Reagent Product code

None Not Applicable

Recommended Use Reagent

Contact Manufacturer KPL, Inc. Phone #: 1-301-948-7755

910 Clopper Road
Gaithersburg, Maryland 20878
USA

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

UK – THE NATIONAL FOCUS

Telephone: (1 ) 613 996 6666 Hours: 24 hours/day, 7 days/week

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 hazardous to health or the

environment.

**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

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

Not Applicable

Not Applicable

SDS #: SDS-10130-04

**Additional Information** The product contains no substances which at their given concentration, are considered to be

hazardous to health.

Not Applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

% Weight Component **CHEMICAL** CAS #:

LumiGLO Reserve™ Chemiluminescent Substrate

Solution B

**GHS Classification** Not Applicable:

The product contains no substances which at their given concentration, are considered

to be hazardous to health or the environment as per:

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

Regulation (EC) No 1272/2008

# 4. FIRST AID MEASURES

**General Advice** Wash contaminated clothing before reuse. Consult a physician if irritation persists.

Rinse mouth Oral Exposure **Inhalation Exposure** Fresh air, rest.

Clean skin with soap and water. Wash contaminated clothing before reuse. Skin Exposure

**Eye Exposure** Flush with copious amounts of water or eyewash saline for at least 15 minutes.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media** Dry Chemical extinguishers, water spray or foam.

**Unusual Fire and Explosive** 

**Hazards** 

None special.

Not Available **Flash Point** 

**Autoignition Temperature** Not Applicable

Not Flammable Flammability Statement

Specific hazards arising from Not Applicable

the chemical

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.

Collect leaking and spilled liquid in sealable containers as far as possible. **Method of Containment** 

Methods of Clean-up Contain spill and then clean-up with copious amounts of water.

Not Applicable Other Information

# 7. HANDLING AND STORAGE

SDS #: SDS-10130-04

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

**Storage:** Store at  $2 - 8^{\circ}$ 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, colorless, odorless liquid

**Physical State** Liquid Odorless Odor **Odor Threshold** Not Available Hq Not Available Not Available **Boiling Point** Not Available **Evaporation Rate Vapor Density** Not Available Not Available Vapor Pressure **Relative Density** Not Available **Auto-Ignition Temperature** Not Available **Water Solubility** Not Available **Flammability** Not Available **Flash Point** Not Available Not Available Viscosity Not Available **Oxidizing Properties Explosive Properties** Not Available

# 10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions

**Conditions to avoid** Protect from direct UV light, avoid elevated temperatures.

Not Available

**Incompatibility Materials to** 

**Additional Parameters** 

Avoid

Oxidizing agents, combustible materials, organic materials, acids, alkalis and metals.

**Hazardous Decomposition** 

**Products** 

None Known

Hazardous Polymerization Will not occur
Possibility of hazardous Not Applicable

reactions

. .

## 11. TOXICOLOGY MEASURES

#### **Acute Toxicity**

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

LD50 Oral Not Available
LD50 Dermal Not Available

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 Not Available **Developmental Effects** Not Available **Target Organ Effects** Not Available Other adverse effects

## 12. ECOLOGICAL MEASURES

**Ecotoxicity** Not Applicable

Persistence/Degradability Not Applicable

Mobility in Environmental

Media

Bioaccumulation/ Accumulation Not Applicable

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 Not Applicable **AICS** 

#### **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: 7/26/2014

SIGNALOCK™ BLOCKING SOLUTION

SDS #: SDS-10280-03

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description: Product Code

SIGNALOCK™ BLOCKING SOLUTION 50-58-00
SIGNALOCK™ BLOCKING SOLUTION SPL-SL
SIGNALOCK™ BLOCKING SOLUTION 50-58-01

Hazardous Reagent Product code

None None

Recommended Use Reagent

Contact Manufacturer KPL, Inc. Phone #: 1-301-948-7755

910 Clopper Road
Gaithersburg, Maryland 20878
USA

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
UK – THE NATIONAL FOCUS
USA- NATIONAL RESPONSE CENTER

Telephone: (1 ) 613 996 6666
Hours: 24 hours/day, 7 days/week
Hours: 09:00-17:00 GMT
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 hazardous to health or the

environment.

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

Acute Effects: Skin: Absorption through skin may occur. May cause irritation to the skin

Acute Effects: Inhalation: May cause irritation to the respiratory tract.

Acute Effects: Ingestion: May be harmful if swallowed.

**Chronic Effects:** 

Additional Information The product contains no substances which at their given concentration, are considered to be

hazardous to health

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

ComponentCHEMICAL% WeightCAS #:SIGNAL OCKIM BLOCKINGDISODIUM HYDROGEN PHOSPHATE<1%</td>7558-79-4

SIGNALOCK™ BLOCKING

SOLUTION

GHS Classification Not Available

# 4. FIRST AID MEASURES

General Advice Wash contaminated clothing before reuse. Consult a physician if irritation persists

**Oral Exposure** Rinse mouth. Refer for medical attention.

**Inhalation Exposure** Remove subject to fresh air. Seek medical attention if necessary.

**Skin Exposure** Flush skin with copious amounts of water.

**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**Use extinguishing media appropriate for surrounding fire.

**Unusual Fire and Explosive** 

**Hazards** 

Not Available

Flash Point Not Available

Autoignition Temperature Not Available

Flammability Statement Not Available

Specific hazards arising from Not Available

the chemical

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. Avoid dust formation. Avoid breaking vapors, mist or

das.

Environmental Precautions Data for 100% DISODIUM HYDROGEN PHOSPHATE :

Endangerment of drinking water and environment:

Maybe a hazard to drinking water sources when very large quantities get into groundwater.

Inform the responsible authorities.

**Method of Containment**Containment of spills requires no special equipment or procedures.

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 - 25°C.

## 8. EXPOSURE CONTROL

Respiratory Protection Ventilation, local exhaust, or breathing protection

Eye ProtectionSafety goggles. Safety spectaclesSkin ProtectionProtective gloves. Protective clothing.IngestionDo not eat, drink, or smoke during work.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear/Colorless- Pale Blue

Physical State Liquid

Odor Not Available **Odor Threshold** Not Available Not Available Hq **Boiling Point** Not Available Not Available **Evaporation Rate** Not Available **Vapor Density** Vapor Pressure Not Available **Relative Density** Not Available **Auto-Ignition Temperature** Not Available Water Solubility Dilutable **Flammability** Not Available Not Available **Flash Point** Viscosity Not Available

**Additional Parameters** See datasheet for other product information.

Not Available

Not Available

## 10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions

Conditions to avoid Data for 100% DISODIUM HYDROGEN PHOSPHATE : The substance decomposes on

heating producing toxic fumes. Reacts violently with strong acids .

**Incompatibility Materials to** 

**Oxidizing Properties** 

**Explosive Properties** 

Avoid

Not Available

**Hazardous Decomposition** 

**Products** 

Carbon Monoxide, Carbon Dioxide

Hazardous Polymerization Will not occur

Possibility of hazardous

reactions

Data for 100% DISODIUM HYDROGEN PHOSPHATE : The substance decomposes on

heating producing toxic fumes. Reacts violently with strong acids .

# 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.

#### SIGNALOCK™ BLOCKING SOLUTION

SDS #: SDS-10280-03

Data for 100% DISODIUM HYDROGEN PHOSPHATE: LD50 Rat >2000 mg/kg bw OECD LD50 Oral

Guide-line 401 "Acute Oral Toxicity" Source: BK Ladenburg, c/o Dr. W. Koch Ladenburg

**LD50 Dermal** Not Available LC50 Inhalation Not Available

**Chronic Toxicity** 

Not Available Carcinogenicity

Irritation Data for 100% DISODIUM HYDROGEN PHOSPHATE: Mild Eye and Skin Irritation

Corrosivity Not Available Sensitization Not Available **Neurological Effects** Not Available **Mutagenic Effects** Not Available **Reproductive Effects** Not Available **Developmental Effects** Not Available Not Available **Target Organ Effects** Not Available

## 12. ECOLOGICAL MEASURES

**Ecotoxicity** Not Available

Persistence/Degradability Not Available **Mobility in Environmental** Not Available

Media

Bioaccumulation/ Accumulation

Other adverse effects

Not Available

## 13. DISPOSAL MEASURES

**Waste Disposal Method:** If there is no way of recycling it must be disposed of in compliance with the respective national

and local regulations.

Avoid contact with skin and clothing. Place contaminated packaging in a break proof outer **Contaminated Packaging:** 

vessel and dispose on in compliance with national and local regulations.

**US EPA Waste Number:** Not Available

## 14. TRANSPORTATION MEASURES

DOT: Not Available Not Available IATA: 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** 

#### SDS #: SDS-10280-03

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 DISODIUM

HYDROGEN PHOSPHATE

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

#### International Inventories

Chemical Name DISODIUM HYDROGEN

**PHOSPHATE** 

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

## **EU Regulations**

Annex I Index# Not Available
Classification Not Available
Risk Phrases Not Available

Safety Phrases Not Available

Symbols and Indications

of Danger

Not Available

**Specific Concentration** 

Limits

Not Available

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

European Priority List This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No

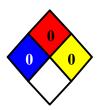
793/93 on the evaluation and control of the risks of existing substances.).

## 16. OTHER INFORMATION

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

Revision Date: 7/26/2014

# **Material Safety Data Sheet**





Revision Date: 2/11/2011

MSDS #: 10133 50-63-00 50-63-01 50-63-03 20X Wash Solution Concentrate (Imidazole Buffered Saline with

Tween 20)

50-63-04 50-63-19 SPL-WASH

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description CATALOG NO.

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

50-63-01 50-63-03 50-63-04 50-63-19 SPL-WASH

50-63-00

Hazardous Reagent Hazardous Reagent Product code

None None

Recommended Use Reagent

Contact Manufacturer KPL, Inc. Phone #: 1-301-948-7755

910 Clopper Road
Gaithersburg, Maryland 20878
USA

Fax #: 1-301-948-0169
Web: www.kpl.com
Email: techserv@kpl.com

**Emergency Telephone Numbers:** 

AUSTRALIA – POISONS INFORMATION CENTER Telephone: 13 11 26 Hours: 24 hours

CANADIAN TRANSPORT EMERGENCY CENTER
UK – THE NATIONAL FOCUS
Telephone: (1 ) 613 996 6666
Telephone: (44) 029 2041 6388
Hours: 24 hours/day, 7 days/week
Hours: 09:00-17:00 GMT

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

## 2. HAZARD IDENTIFICATION

Hazard Type

Principle Route of Exposure
Acute Effects: Eye:

Acute Effecta: Skin:

Acute Effects: Inhalation:
Acute Effects: Ingestion:

Chronic Effects:

Not Applicable
Not Applicable
Not Applicable

MSDS #: 10133 20X Wash Solution Concentrate (Imidazole Buffered Saline with 50-63-00 50-63-01 50-63-03

Tween 20)

50-63-04 50-63-19 SPL-WASH

**Additional Information** Not Applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component **CHEMICAL** % Weight CAS #: N.A N.A N.A

20X Wash Solution Concentrate

(Imidazole Buffered Saline with Tween 20)

## 4. FIRST AID MEASURES

**General Advice** Not Applicable Rinse mouth **Oral Exposure Inhalation Exposure** Fresh air, rest.

Skin Exposure 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** Use extinguishing media appropriate for surrounding fire.

**Unusual Fire and Explosive** 

**Hazards** 

Not Applicable

**Flash Point** Not Applicable

**Autoignition Temperature** Not Applicable

Flammability Statement Not Applicable

Specific hazards arising from Not Applicable

the chemical

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.

Not Applicable **Environmental Precautions** 

**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.

Not Applicable Other Information

MSDS #: 10133 50-63-00 50-63-01 50-63-03 20X Wash Solution Concentrate (Imidazole Buffered Saline with Tween 20)

50-63-04 50-63-19 SPL-WASH

# 7. HANDLING AND STORAGE

**Handling:** Wear appropriate PPE.

**Storage:** Store at  $2 - 8^{\circ}$ C.

## 8. EXPOSURE CONTROL

Respiratory Protection None required if good ventilation is maintained. Otherwise wear MSHA/NIDSH

approved respirator suitable for vapor or mist concentrations encountered.

**Eye Protection** Safety spectacles.

Skin ProtectionProtective gloves. Protective clothing.IngestionDo not eat, drink, or smoke during work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear, Colorless Solution. Relatively free of particulate matter

Physical State Liquid

Not Applicable Odor Not Applicable **Odor Threshold** рΗ Not Applicable **Boiling Point** Not Applicable **Evaporation Rate** Not Applicable **Vapor Density** Not Applicable Vapor Pressure Not Applicable **Relative Density** Not Applicable Not Applicable **Auto-Ignition Temperature** Dilutable **Water Solubility Flammability** Not Applicable Flash Point Not Applicable Viscosity Not Applicable **Oxidizing Properties** Not Applicable

# 10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions

Conditions to avoid Not Available

Incompatibility Materials to Not Applicable

**Avoid** 

Hazardous Decomposition

**Explosive Properties** 

**Additional Parameters** 

**Products** 

Not Applicable

Not Applicable

Not Available

Hazardous Polymerization Will not occur

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Possibility of hazardous

reactions

Not Applicable

# 11. TOXICOLOGY MEASURES

## **Acute Toxicity**

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

LD50 OralNot ApplicableLD50 DermalNot ApplicableLC50 InhalationNot Applicable

**Chronic Toxicity** 

Carcinogenicity Not Applicable Irritation Not Applicable Corrosivity Not Applicable Sensitization Not Applicable **Neurological Effects** Not Applicable **Mutagenic Effects** Not Applicable **Reproductive Effects** Not Applicable **Developmental Effects** Not Applicable **Target Organ Effects** Not Applicable Other adverse effects Not Applicable

## 12. ECOLOGICAL MEASURES

**Ecotoxicity** Not Applicable

Persistence/Degradability Not Applicable

Mobility in Environmental

Media

Bioaccumulation/ Accumulation Not Applicable

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

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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 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 N.A

Massachusetts Not Applicable

New JerseyNot ApplicablePennsylvaniaNot ApplicableNew YorkNot ApplicableRhode IslandNot Applicable

#### **International Inventories**

Chemical Name N.A

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

#### **EU Regulations**

Annex I Index#

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Tween 20)

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Classification Not Applicable
Risk Phrases Not Applicable

Safety Phrases Not Applicable

Symbols and Indications Not Applicable

of Danger

Specific Concentration Not

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.