

Safety Data Sheet



Revision Date: 6/30/2014

SDS #: SDS-10131-02

LumiGLO® Chemiluminescent Substrate

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:

Product Code

LumiGLO® Chemiluminescent Substrate (Sample)	SPL-LG
LumiGLO® Chemiluminescent Substrate	54-61-02
LumiGLO® Chemiluminescent Substrate	54-61-01
LumiGLO® Chemiluminescent Substrate	54-61-00

Kit Components:

LumiGLO® Chemiluminescent Substrate A	50-59-00
LumiGLO Substrate B	50-60-00
LumiGLO® Chemiluminescent Substrate A	50-59-01
LumiGLO Substrate B	50-60-01
LumiGLO® Chemiluminescent Substrate A	SPL-LG-A
LumiGLO Substrate B	SPL-LG-B

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)

Safety Data Sheet



Revision Date: 6/30/2014

LumiGLO® Chemiluminescent Substrate A

SDS #: SDS-10295-01

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
LumiGLO® Chemiluminescent Substrate A	50-59-02
LumiGLO® Chemiluminescent Substrate A	50-59-01
LumiGLO® Chemiluminescent Substrate A	50-59-00

Hazardous Reagent

LumiGLO® Chemiluminescent Substrate 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	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 blurred vision.
Acute Effects: Skin:	Dry skin and Irritation may occur
Acute Effects: Inhalation:	Headache and Nausea may occur.
Acute Effects: Ingestion:	Nausea, Vomiting and Drowsiness may occur
Chronic Effects:	None Available
Additional Information	The product contains no substances which at their given concentration, are considered to be

hazardous to health

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
LumiGLO® Chemiluminescent Substrate A	Dimethylsulfoxide	≤ 3.0%	67-68-5

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
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4. FIRST AID MEASURES

General Advice	Wash contaminated clothing before reuse.
Oral Exposure	Do not induce vomiting. Refer for medical attention.
Inhalation Exposure	Remove subject to fresh air. Seek medical attention if necessary.
Skin Exposure	Remove contaminated clothes. Rinse and then wash skin with water and soap. Seek medical attention if irritation persists.
Eye Exposure	First rinse with plenty of water for several minutes (remove contact lenses if easily possible). Seek medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Extinguishing media	Foam, Alcohol Foam, CO ₂ , Dry Chemical and Water/Fog
Unusual Fire and Explosive Hazards	May emit toxic fumes under fire conditions.
Flash Point	Not Available
Autoignition Temperature	Not Applicable
Flammability Statement	Not Applicable
Specific hazards arising from the chemical	May emit toxic fumes under fire conditions. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
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	Not Available
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	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 room temperature. Separated from strong oxidants.

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. May be harmful if inhaled in very large quantities.

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, Faint Yellow Colored Solution

Physical State Liquid

Odor Not Available

Odor Threshold Not Available

pH Not Available

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 Not Available

10. STABILITY AND REACTIVITY

Chemical Stability Stable.

Conditions to avoid Not Available

Incompatibility Materials to Avoid Other strong oxidizing agents, acid chlorides, acid anhydrides

Hazardous Decomposition Products Upon evaporation of water, may emit carbon monoxide, carbon dioxide, SO X

Hazardous Polymerization Will not occur

Possibility of hazardous reactions Not Applicable

11. TOXICOLOGY MEASURES

Acute Toxicity

SDS #: SDS-10295-01

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

LD50 Oral	Not Available
LD50 Dermal	Not Available
LC50 Inhalation	Not Available

Chronic Toxicity

Carcinogenicity	Not Available
Irritation	Yes. May occur
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 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).

SDS #: SDS-10295-01

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and Title 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	Dimethylsulfoxide
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Massachusetts	Not Listed
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New Jersey	Not Listed
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Pennsylvania	Not Listed
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New York	Not Listed
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Rhode Island	Not Listed
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International Inventories

Chemical Name	Dimethylsulfoxide
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TSCA	Listed
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DSL	Not Listed
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NDSL	Listed
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EINECS	Listed
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CHINA	Listed
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KECL	Listed
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JAPAN:	Listed
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AICS	Listed
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EU Regulations

Annex I Index#	Not Applicable
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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
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Risk Phrases	Not Applicable
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Safety Phrases	Not Applicable
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Symbols and Indications of Danger	Not Applicable
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Specific Concentration Limits	Not Applicable
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Export and Import	This substance is not listed in the Annex I of Regulation (EC) No 649/2012.
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European Priority List	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.
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16. OTHER INFORMATION

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

Revision Date: 6/30/2014

Safety Data Sheet



Revision Date: 7/21/2014

LumiGLO Substrate B

SDS #: SDS-10137-02

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
LumiGLO Substrate B	50-60-00
	50-60-02
	50-60-01

Hazardous Reagent
None

Hazardous Reagent Product code
None

Recommended Use Reagent

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

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

Emergency Telephone Numbers:

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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. 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	Not Applicable
Acute Effects: Eye:	Not Applicable
Acute Effects: Skin:	Not Applicable
Acute Effects: Inhalation:	Not Applicable
Acute Effects: Ingestion:	Not Applicable
Chronic Effects:	Not Applicable
Additional Information	Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CHEMICAL	% Weight	CAS #:
LumiGLO Substrate B	Not Applicable	Not Applicable	Not Applicable

GHS Classification	Not Applicable: The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment as per: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Regulation (EC) No 1272/2008
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4. FIRST AID MEASURES

General Advice	Not Applicable
Oral Exposure	Rinse mouth
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 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.
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SDS #: SDS-10137-02

Storage: Store at 2 – 8°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 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	Not Applicable
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
Oxidizing Properties	Not Applicable
Explosive Properties	Not Applicable
Additional Parameters	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to avoid	Not Available
Incompatibility Materials to Avoid	Not Applicable
Hazardous Decomposition Products	Not Applicable
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	Not Available
LD50 Dermal	Not Available
LC50 Inhalation	Not Available

SDS #: SDS-10137-02

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)

Not Available

SDS #: SDS-10137-02

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#**

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 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 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: 7/21/2014