

CELL SIGNALING TECHNOLOGY
MATERIAL SAFETY DATA SHEET –KIT
April 2012

1. PRODUCT IDENTIFICATION

Product Name: SignalKine™ Sandwich ELISA Kit
Product catalog #: 1111
Product Use: **This product is intended for Research Use Only (RUO).
It is not intended for clinical diagnostic or therapeutic use in humans or animals.**

Manufacturer/Supplier: Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923
USA
978-867-2300 TEL
978-867-2400 FAX
978-578-6737 EMERGENCY TEL

3. HAZARDS IDENTIFICATION

- ✓ ELISA Wash Buffer (CST#9801)
- ✓ Luminol/Enhancer Solution/Stable Peroxide Buffer
- ✓ Assay Diluent 1
- ✓ Serum Diluent 1
- ✓ Detection Antibody Diluent
- ✓ HRP-linked Streptavidin (lyophilized) 100X
- ✓ HRP Diluent

Based on percentages of hazardous ingredients in all other kit components in this product, this product is not classified as “dangerous” under EU Directives 67/548/EEC or hazardous under US OSHA Hazard Communications regulations 29 CFR 1910.1200.

3. COMPOSITION/INFORMATION

Preparation Name: SignalKine™ Sandwich ELISA Kit
CAS#: N/A

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.
Ingestion: If person is conscious, wash out mouth with water. Get medical attention.
Skin Exposure: Wash skin with soap and water. If irritation develops or persists, get medical attention.
Eye Exposure: Immediately flush eyes water for at least 15 minutes. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable
Autoignition Temperature: Not applicable
Explosion: Not applicable
Fire extinguishing media: water spray, dry chemical, foam, or carbon dioxide.
Firefighting: wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.
Specific Hazard: none

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment. Absorb liquid with an absorbent material. Transfer contaminated absorbent to a closed chemical waste container for disposal. Wash spill site after material has been picked up for disposal.

7. HANDLING AND STORAGE

Storage: Store kit in tightly closed container at 4C.

8-13. Refer to individual MSDS for kit components for Sections 8-13 information: Exposure Controls/Personal Protection, Physical and Chemical Properties, Stability and Reactivity, Toxicological Information, Ecological information, Disposal Considerations.

14. TRANSPORT INFORMATION**D.O.T.**

Proper Shipping Name: None
This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name: None
This substance is considered non-hazardous for air transport.

15. REGULATORY INFORMATION:

EU: Not classified
OSHA: Not listed
Canadian DSL: Not Listed
SARA 302, 313 Not Listed.
SARA 311/312: Not Listed.
Massachusetts Right To Know: Not Listed.
Pennsylvania Right To Know: Not Listed.
New Jersey Right To Know: Not Listed.
California Prop. 65: Not Listed

16. OTHER INFORMATION

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.

1. PRODUCT IDENTIFICATION

Product Name: Assay Diluent 1
Product catalog #: ~~XXXXXXXXXX~~ 111 Kit component
Substance/Preparation: Preparation
Identified Use: **This product is for *in vivo* laboratory research use only (RUO).
It is not intended for clinical diagnostic or therapeutic use in humans or animals.**

Supplier : Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923
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2. COMPOSITION/INFORMATION on hazardous ingredients

According to 29CFR 1910.1200(d), mixtures with hazardous ingredients at less than 1% and carcinogens at less than 0.1% are considered non-hazardous.

Ingredient:	CAS#	% Volume
Tween 20	9005-64-5	0.5%
Non hazardous Phosphate Buffered Saline, 5X	N/A	99.5%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

OSHA: Non-hazardous

EU: This product is not classified according to Directive 1999/45/EC.

Appearance: Colorless liquid

Possible routes of exposure:

Eye/Skin Contact: May cause irritation to eyes, skin.

Ingestion: May cause gastrointestinal tract irritation.

Inhalation: May cause respiratory tract irritation.

4. FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Get medical attention or Call Poison Control Center for most current information.

Skin Exposure: In case of contact, immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing. Wash clothing before reuse.

Eye Exposure: In case of contact with eyes, immediately flush eyes water for at least 15 minutes. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: Not Flammable.

Autoignition Temperature: Not considered to be a fire hazard.

Explosion: Not applicable.

Fire extinguishing media: water spray, dry chemical, alcohol foam, or carbon dioxide.

Firefighting: wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES :

Wear appropriate personal protective equipment. Avoid contact with spilled material. Avoid breathing vapor or mist. Provide adequate ventilation.

7. HANDLING AND STORAGE

Store in tightly closed container at 4°C. Keep and use in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation System: a system of local and/or general exhaust is recommended.

Skin Protection: wear compatible chemical resistant gloves and protective clothing, such as a lab coat.

Eye protection: wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless liquid
Odor:	no data available
pH:	no data available
Melting Point:	no data available
Boiling Point	no data available
Flash Point	Not considered to be a fire hazard.
Explosive properties	Not considered to be an explosion hazard.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Hazardous Polymerization:	no data available
Hazardous Decomposition:	no data available
Conditions to avoid:	no data available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	no data available
Chronic Toxicity	no data available

Routes of Exposure:

Skin Exposure: May be harmful if absorbed through skin.

Eye Exposure: May cause eye irritation.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, local environmental regulations.

14. TRANSPORT INFORMATION

D.O.T.

Proper Shipping Name:	None
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This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name:	None
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This substance is considered non-hazardous for air transport.

15. REGULATORY INFORMATION

OSHA: Not classified as hazardous.

EU: Not classified as dangerous.

Canadian DSL: Not Listed

SARA 302, 313 Not Listed.

SARA 311/312: Not Listed.

Massachusetts Right To Know: Not Listed.

Pennsylvania Right To Know: Not Listed.

New Jersey Right To Know: Not Listed.

California Prop. 65: Not Listed

16. OTHER INFORMATION

This compound is sold only for *in vitro* laboratory research use only. It is not for use in humans. It is not intended for use as diagnostic or clinical therapeutic. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.

CELL SIGNALING TECHNOLOGY
MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: ELISA Wash Buffer (20X)
Product catalog #: #1111 Kit component
CAS#: N/A
Product Use: **This product is intended for Research Use Only (RUO).** It is not intended for clinical diagnostic or therapeutic use in humans or animals.
Manufacturer/Supplier: Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923
USA
978-867-2300 TEL
978-867-2400 FAX
978-578-6737 EMERGENCY TEL

2. HAZARDS IDENTIFICATION

OSHA regulatory status:
This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
EU regulatory Status:
Not a hazardous mixture according to Regulation (EC) No. 1272/2008.
Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#.....
.....
Tween 20	1%	9005-64-5
Kathon	0.5%	55965-84-9
Non-hazardous 20X phosphate buffered saline	98.5%	none

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.
Ingestion: If person is conscious, wash out mouth with water. Get medical attention.
Skin Exposure: Wash skin with soap and water.
Eye Exposure: Flush eyes water as a precaution.

5. FIRE FIGHTING MEASURES

Flammability: Not flammable.
Fire extinguishing media: water spray, dry chemical, foam, or carbon dioxide.
Firefighting: wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.
Specific Hazard: none known

6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

7. HANDLING AND STORAGE

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Recommended storage temperature 4°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: showers, eyewash, ventilation systems.

Hygiene Measures: wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless liquid
Odor:	data not available
pH :	data not available
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

10. STABILITY AND REACTIVITY

Stability:	no data available.
Conditions/materials to avoid:	no data available
Hazardous Decomposition:	no data available
Hazardous polymerization:	no data available.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	no data available
Chronic Toxicity	no data available

Routes of Exposure:

Skin Exposure: May be harmful if absorbed through skin.

Eye Exposure: May cause eye irritation.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

D.O.T.

Proper Shipping Name: None
This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name: None
This substance is considered non-hazardous for air transport.

15. REGULATORY INFORMATION

OSHA: Not classified as hazardous.
EU: Not classified as dangerous.
Canadian DSL: Not Listed
SARA 302, 313 Not Listed.
SARA 311/312: Not Listed.
Massachusetts Right To Know: Not Listed.
Pennsylvania Right To Know: Not Listed.
New Jersey Right To Know: Not Listed.
California Prop. 65: Not Listed

16. OTHER INFORMATION

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.

CELL SIGNALING TECHNOLOGY
MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: Assay Diluent 1
Product catalog #: #1111 Kit component
CAS#: N/A
Product Use: **This product is intended for Research Use Only (RUO).** It is not intended for clinical diagnostic or therapeutic use in humans or animals.
Manufacturer/Supplier: Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923
USA
978-867-2300 TEL
978-867-2400 FAX
978-578-6737 EMERGENCY TEL

2. HAZARDS IDENTIFICATION

OSHA regulatory status:

This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

EU regulatory Status:

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#
.....
Fetal Bovine Serum	99.95%	9014-81-7
Sodium azide	0.05%	26628-22-8

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: If person is conscious, wash out mouth with water. Get medical attention.

Skin Exposure: Wash skin with soap and water.

Eye Exposure: Flush eyes water as a precaution.

5. FIRE FIGHTING MEASURES

Flammability: Not flammable.

Fire extinguishing media: water spray, dry chemical, foam, or carbon dioxide.

Firefighting: wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

Specific Hazard: none known

6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

7. HANDLING AND STORAGE

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed. Recommended storage temperature 4°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: showers, eyewash, ventilation systems.
Hygiene Measures: wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless liquid
Odor:	data not available
pH :	7.2-7.4
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

10. STABILITY AND REACTIVITY

Stability:	no data available.
Conditions/materials to avoid:	no data available
Hazardous Decomposition:	no data available
Hazardous polymerization:	no data available.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	no data available
Chronic Toxicity	no data available

Routes of Exposure:

Skin Exposure: May be harmful if absorbed through skin.

Eye Exposure: May cause eye irritation.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

D.O.T.

Proper Shipping Name:	None
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This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name:	None
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This substance is considered non-hazardous for air transport.

15. REGULATORY INFORMATION

OSHA: No known hazards

EU: not classified.
Canadian DSL: Not Listed
SARA 302, 313 Not Listed.
SARA 311/312: Not Listed.
Massachusetts Right To Know: Not Listed.
Pennsylvania Right To Know: Not Listed.
New Jersey Right To Know: Not Listed.
California Prop. 65: Not Listed

16. OTHER INFORMATION

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CELL SIGNALING TECHNOLOGY
MATERIAL SAFETY DATA SHEET
December 22, 2011

1. PRODUCT IDENTIFICATION

Product Name: Serum Diluent 1
Product catalog #: ~~XXXXXXXXXX~~ 11 kit component
CAS#: N/A
Product Use: **This product is intended for Research Use Only (RUO).
It is not intended for clinical diagnostic or therapeutic use in humans or animals.**
Manufacturer/Supplier: Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923
USA
978-867-2300 TEL
978-867-2400 FAX
978-578-6737 EMERGENCY TEL

2. HAZARDS IDENTIFICATION

OSHA regulatory status:

This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

EU regulatory Status:

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#
.....
Fetal Bovine Serum	99.95%	9014-81-7
Sodium azide	0.05%	26628-22-8

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: If person is conscious, wash out mouth with water. Get medical attention.

Skin Exposure: Wash skin with soap and water.

Eye Exposure: Flush eyes water as a precaution.

5. FIRE FIGHTING MEASURES

Flammability: Not flammable.

Fire extinguishing media: water spray, dry chemical, foam, or carbon dioxide.

Firefighting: wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

Specific Hazard: none known

6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

7. HANDLING AND STORAGE

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed. Recommended storage temperature 4°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: showers, eyewash, ventilation systems.

Hygiene Measures: wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless liquid
Odor:	data not available
pH :	7.2-7.4
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

10. STABILITY AND REACTIVITY

Stability:	no data available.
Conditions/materials to avoid:	no data available
Hazardous Decomposition:	no data available
Hazardous polymerization:	no data available.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	no data available
Chronic Toxicity	no data available

Routes of Exposure:

Skin Exposure: May be harmful if absorbed through skin.

Eye Exposure: May cause eye irritation.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

D.O.T.

Proper Shipping Name: None
This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name: None
This substance is considered non-hazardous for air transport.

15. REGULATORY INFORMATION

OSHA: No known hazards
EU: not classified.
Canadian DSL: Not Listed
SARA 302, 313 Not Listed.
SARA 311/312: Not Listed.
Massachusetts Right To Know: Not Listed.
Pennsylvania Right To Know: Not Listed.
New Jersey Right To Know: Not Listed.
California Prop. 65: Not Listed

16. OTHER INFORMATION

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CELL SIGNALING TECHNOLOGY
MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: Detection Antibody Diluent
Product catalog #: ~~XXXXXXXXXX~~ i i i kit component
CAS# N/A
Product Type: Preparation
Product Use: **This product is intended for Research Use Only (RUO).
It is not intended for clinical diagnostic or therapeutic use in humans or animals.**
Manufacturer/Supplier: Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923
USA
978-867-2300 TEL
978-867-2400 FAX
978-578-6737 EMERGENCY TEL

2. HAZARDS IDENTIFICATION

OSHA regulatory status:

This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

EU regulatory Status:

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#
.....
Bovine Serum Albumin	2%	9048-46-8
Fetal Bovine Serum	25%	N/A
Tween 20	0.1%	9005-64-5
Kathon	0.05%	55965-84-9

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: If person is conscious, wash out mouth with water. Get medical attention.

Skin Exposure: Wash skin with soap and water.

Eye Exposure: Flush eyes water as a precaution.

5. FIRE FIGHTING MEASURES

Flammability: Not flammable.

Fire extinguishing media: water spray, dry chemical, foam, or carbon dioxide.

Firefighting: wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

Specific Hazard: none known

6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

7. HANDLING AND STORAGE

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed. Recommended storage temperature 4°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: showers, eyewash, ventilation systems.

Hygiene Measures: wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	green liquid
Odor:	data not available
pH :	data not available
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

10. STABILITY AND REACTIVITY

Stability:	no data available.
Conditions/materials to avoid:	no data available
Hazardous Decomposition:	no data available
Hazardous polymerization:	no data available.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	no data available
Chronic Toxicity	no data available

Routes of Exposure:

Skin Exposure: May be harmful if absorbed through skin.

Eye Exposure: May cause eye irritation.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

D.O.T.

Proper Shipping Name:	None
------------------------------	------

This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name:	None
------------------------------	------

This substance is considered non-hazardous for air transport.

15. REGULATORY INFORMATION

OSHA: Not classified as hazardous.

EU: Not classified as dangerous.

Canadian DSL: Not Listed

SARA 302, 313 Not Listed.

SARA 311/312: Not Listed.

Massachusetts Right To Know: Not Listed.

Pennsylvania Right To Know: Not Listed.

New Jersey Right To Know: Not Listed.

California Prop. 65: Not Listed

16. OTHER INFORMATION

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CELL SIGNALING TECHNOLOGY
MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: HRP-Linked Streptavidin (lyophilized) 100X
Product catalog #: #1111 Kit component
CAS#: N/A
Product Use: **This product is intended for Research Use Only (RUO).** It is not intended for clinical diagnostic or therapeutic use in humans or animals.
Manufacturer/Supplier: Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923
USA
978-867-2300 TEL
978-867-2400 FAX
978-578-6737 EMERGENCY TEL

2. HAZARDS IDENTIFICATION

OSHA regulatory status:

This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

EU regulatory Status:

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#
.....
Trehalose	5%	6138-23-4
Non-hazardous Phosphate Buffered Saline	95%	N/A

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: If person is conscious, wash out mouth with water. Get medical attention.

Skin Exposure: Wash skin with soap and water.

Eye Exposure: Flush eyes water as a precaution.

5. FIRE FIGHTING MEASURES

Flammability: Not flammable.

Fire extinguishing media: water spray, dry chemical, foam, or carbon dioxide.

Firefighting: wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

Specific Hazard: none known

6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

7. HANDLING AND STORAGE

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed. Recommended storage temperature 4°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: showers, eyewash, ventilation systems.
Hygiene Measures: wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	lyophilized powder
Odor:	data not available
pH :	data not available
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

10. STABILITY AND REACTIVITY

Stability:	no data available.
Conditions/materials to avoid:	no data available
Hazardous Decomposition:	no data available
Hazardous polymerization:	no data available.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	no data available
Chronic Toxicity	no data available

Routes of Exposure:

Skin Exposure: May be harmful if absorbed through skin.

Eye Exposure: May cause eye irritation.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

D.O.T.

Proper Shipping Name:	None
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This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name:	None
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This substance is considered non-hazardous for air transport.

15. REGULATORY INFORMATION

OSHA: Not classified as hazardous.

EU: Not classified as dangerous.
Canadian DSL: Not Listed
SARA 302, 313 Not Listed.
SARA 311/312: Not Listed.
Massachusetts Right To Know: Not Listed.
Pennsylvania Right To Know: Not Listed.
New Jersey Right To Know: Not Listed.
California Prop. 65: Not Listed

16. OTHER INFORMATION

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.

CELL SIGNALING TECHNOLOGY
MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: HRP Diluent
Product catalog #: #8668 Kit component
CAS#: N/A
Product Type: Preparation
Product Use: **This product is intended for Research Use Only (RUO).** It is not intended for clinical diagnostic or therapeutic use in humans or animals.
Manufacturer/Supplier: Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923
USA
978-867-2300 TEL
978-867-2400 FAX
978-578-6737 EMERGENCY TEL

2. HAZARDS IDENTIFICATION

OSHA regulatory status:

This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

EU regulatory Status:

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#
.....
Bovine Serum Albumin	2%	9048-46-8
Fetal Bovine Serum	25%	N/A
Tween 20	0.1%	9005-64-5
Kathon	0.05%	55965-84-9

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: If person is conscious, wash out mouth with water. Get medical attention.

Skin Exposure: Wash skin with soap and water.

Eye Exposure: Flush eyes water as a precaution.

5. FIRE FIGHTING MEASURES

Flammability: Not flammable.

Fire extinguishing media: water spray, dry chemical, foam, or carbon dioxide.

Firefighting: wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

Specific Hazard: none known

6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

7. HANDLING AND STORAGE

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed. Recommended storage temperature 4°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: showers, eyewash, ventilation systems.

Hygiene Measures: wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	red liquid
Odor:	data not available
pH :	data not available
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

10. STABILITY AND REACTIVITY

Stability:	no data available.
Conditions/materials to avoid:	no data available
Hazardous Decomposition:	no data available
Hazardous polymerization:	no data available.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	no data available
Chronic Toxicity	no data available

Routes of Exposure:

Skin Exposure: May be harmful if absorbed through skin.

Eye Exposure: May cause eye irritation.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

D.O.T.

Proper Shipping Name:	None
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This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name:	None
------------------------------	------

This substance is considered non-hazardous for air transport.

15. REGULATORY INFORMATION

OSHA: Not classified as hazardous.

EU: Not classified as dangerous.

Canadian DSL: Not Listed

SARA 302, 313 Not Listed.

SARA 311/312: Not Listed.

Massachusetts Right To Know: Not Listed.

Pennsylvania Right To Know: Not Listed.

New Jersey Right To Know: Not Listed.

California Prop. 65: Not Listed

16. OTHER INFORMATION

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code(s)

Product Name / *[Illegible text]*

Pure substance/preparation

Substance Preparation

Identified uses

For research use only, Not for use in humans.

Manufacturer

Cell Signaling Technology, Inc.
3 Trask Lane
Danvers, MA 01923
TEL: 978-867-2300

Emergency telephone

In case of emergency call CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

May cause central nervous system depression
Causes respiratory tract, eye, and skin irritation.
May be harmful if swallowed

Appearance Clear

Physical State liquid

Odor No information available

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Acute Toxicity

Eyes

Irritating to eyes.

Skin

Irritating to skin.

Inhalation

Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion

Harmful if swallowed.

Chronic Effects

Chronic toxicity

Contains material that can cause target organ damage.

Aggravated Medical Conditions

Central nervous system Pre-existing eye disorders. Skin disorders Respiratory disorders Use of alcoholic beverages may enhance toxic effects

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects

Environmental hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Chemical Name	CAS-No	Weight %
Ethylene glycol	107-21-1	1- 3

Chemical Name	CAS-No	Weight %	EC-No
Tris (hydroxymethyl)aminomethane	77-86-1	1- 3	201-064-4
Ethylene glycol	107-21-1	1- 3	203-473-3
Non-hazardous proprietary solution	N/A	<0.05	-

4. FIRST AID MEASURES

Eye contact	Rinse immediately with plenty of water and seek medical advice.
Skin contact	Rinse immediately with plenty of water and seek medical advice.
Inhalation	Move to fresh air.
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water.
Notes to physician	Ingestion, depending on the dose, can cause i.a. abnormal behaviour, unconsciousness, convulsions, respiratory paralysis, pulmonary oedemas, as well as damages to liver and kidneys and can lead, in the worst case, to death. A quick treatment of an ethylene-glycol intoxication, when necessary with haemodialysis, may reduce the toxic effects. Intravenous ethyl alcohol in sodium bicarbonate solution is an approved antitoxin. Rinse mouth.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Suitable Extinguishing Media	Dry chemical, CO, alcohol-resistant foam or water spray.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health Hazard 2	Flammability 0	Stability 0	Physical and chemical hazards -
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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with skin, eyes and clothing.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Prevent product from entering drains.

7. HANDLING AND STORAGE

Advice on safe handling Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Technical measures/Storage conditions Keep container tightly closed. Recommended storage temperature 22 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol 107-21-1	Ceiling: 100 mg/m ³	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³	

Engineering Measures Showers, eyewash stations, and ventilation systems.

Hygiene measures When using, do not eat, drink or smoke Wear suitable gloves and eye/face protection Wash hands before breaks and at the end of workday Wash hands with water as a precaution Regular cleaning of equipment, work area and clothing is recommended Avoid breathing vapors, mist or gas

Personal Protective Equipment

Respiratory protection None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Eye/Face Protection Safety glasses with side-shields

Skin and body protection Protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Appearance	Clear
Color	light pink
Odor	No information available
pH	pH 9.5
Solubility	No information available
Melting point/range	No information available
Boiling Point/Range	No information available
Flash point	No information available
Autoignition temperature	No information available
Flammability Limits in Air	No information available
Explosive properties	No information available
VOC Content	No information available
Initial Boiling Point	No information available
Evaporation Rate	No information available
Decomposition Temperature °C	No information available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	No information available
Hazardous Decomposition Products	None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Caution - substance not yet tested completely

Ingestion Ingestion constitutes the main danger because of the toxicity of ethylene glycol. Accidental ingestion may be harmful to the central nervous system. Ingestion is followed first by digestive disorders (nausea, vomiting, abdominal pain), then by loss of muscular coordination, convulsions, headaches, and dizzy spells, preceding serious nervous disorders. This develops into a state of torpor and then coma, at times accompanied by convulsions. High metabolic acidosis (oxalic acid) leads to affliction of the renal ducts, with anuresis. Intoxication can lead to a coma with metabolic acidosis that may be fatal.

Chronic toxicity Contains material that can cause target organ damage.
Carcinogenicity There are no known carcinogenic chemicals in this product.

Target Organ Effects Central nervous system (CNS), Eyes, Respiratory system, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Ethylene glycol			EC50 = 620 mg/L 30 min EC50 = 10000 mg/L 16 h EC50 = 620.0 mg/L 30 min	

Persistence and degradability No information available.

Bioaccumulation No information available.

Mobility No information available.

Chemical Name	log Pow
Ethylene glycol	-1.93

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with all applicable national environmental laws and regulations.

14. TRANSPORT INFORMATION

DOT Not regulated
MEX Not regulated
IATA Not regulated

15. REGULATORY INFORMATION

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

International Inventories

TSCA -
DSL/NDL -
EINECS/ELINCS -
ENCS -
IECSC -
KECL -
PICCS -
AICS -
NZIoC -

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ethylene glycol	107-21-1	1- 3	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Ethylene glycol	107-21-1	1- 3		Group I		

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Eth
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5000 lb		
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TSCA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethylene glycol	X	X	X	X	X

International Regulations

Mexico - Grade No information available.

Chemical Name	Carcinogen Status	Exposure Limits
Ethylene glycol		Mexico: Ceiling 100 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not Determined

Legend

NPRI - National Pollutant Release Inventory

Component	NPRI
Ethylene glycol 107-21-1 (1- 3)	X

16. OTHER INFORMATION

Revision Date: 2011-08-08

Revision Note No information available.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code(s) 6883
Product Name SignalFire ECL (TM) Reagent B

Pure substance/preparation Substance Preparation

Identified uses For research use only, Not for use in humans.

Manufacturer
Cell Signaling Technology, Inc.
3 Trask Lane
Danvers, MA 01923
TEL: 978-867-2300

Emergency telephone In case of emergency call CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview	
The product contains no substances which at their given concentration, are considered to be hazardous to health.	
Appearance colorless	Physical State liquid
	Odor No information available

Potential Health Effects

Acute Toxicity

Eyes	May cause slight irritation.
Skin	No known effect based on information supplied.
Inhalation	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.

Chronic Effects

Chronic toxicity	No known effect based on information supplied.
Aggravated Medical Conditions	None known.
Environmental hazard	See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	EC-No
Non-hazardous proprietary solution	N/A	NF	-

4. FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water and seek medical advice.

Skin contact Rinse immediately with plenty of water and seek medical advice.

Inhalation Move to fresh air.

Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.
Suitable Extinguishing Media Dry chemical, CO, alcohol-resistant foam or water spray.
Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA **Health Hazard 0** **Flammability 0** **Stability 0** **Physical and chemical hazards -**

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with skin, eyes and clothing.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up No dangerous substances are released.

7. HANDLING AND STORAGE

Advice on safe handling Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Technical measures/Storage conditions Keep container tightly closed. Recommended storage temperature 22 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Showers, eyewash stations, and ventilation systems.

Hygiene measures When using, do not eat, drink or smoke Wear suitable gloves and eye/face protection Wash hands before breaks and at the end of workday Wash hands with water as a precaution Regular cleaning of equipment, work area and clothing is recommended Avoid breathing vapors, mist or gas

Personal Protective Equipment

Respiratory protection None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Eye/Face Protection Safety glasses with side-shields

Skin and body protection Protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Appearance	colorless
Color	clear
Odor	No information available
pH	pH 4.9-5.1
Solubility	No information available
Melting point/range	No information available
Boiling Point/Range	No information available
Flash point	No information available
Autoignition temperature	No information available
Flammability Limits in Air	No information available
Explosive properties	No information available
VOC Content	No information available
Initial Boiling Point	No information available
Evaporation Rate	No information available
Decomposition Temperature °C	No information available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	No information available
Hazardous Decomposition Products	None under normal use.

11. TOXICOLOGICAL INFORMATION

Caution - substance not yet tested completely

Carcinogenicity There are no known carcinogenic chemicals in this product.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

Bioaccumulation No information available.

Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261).

14. TRANSPORT INFORMATION

DOT Not regulated

MEX Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

OSHA Regulatory Status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product

International Inventories

TSCA	-
DSL/NDSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECL	-
PICCS	-
AICS	-
NZIoC	-

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

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

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

TSCA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

International Regulations

Mexico - Grade

No information available.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not Determined

16. OTHER INFORMATION

Revision Date: 2011-08-08

Revision Note No information available.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Material Safety Data Sheet