

14 July 2021

## Kit Components

Product Code	Description
15300-1	NxSeq™ UltraLow DHT Dual Indexing Kit

#### Components

NxSeq® Universal Adaptor	F813785-2
Adaptor Dilution Buffer	F883786-2
Primer 501	F72501-1
Primer 502	F72502-1
Primer 503	F72503-1
Primer 504	F72504-1
Primer 505	F72505-1
Primer 506	F72506-1
Primer 507	F72507-1
Primer 508	F72508-1
Primer 701	F72701-1
Primer 702	F72702-1
Primer 703	F72703-1
Primer 704	F72704-1
Primer 705	F72705-1
Primer 706	F72706-1
Primer 707	F72707-1
Primer 708	F72708-1
Primer 709	F72709-1
Primer 710	F72710-1
Primer 711	F72711-1
Primer 712	F72712-1



Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 07/29/2021 Version: B



: Laboratory Chemicals.

#### 1.1. Product identifier

Product name	:	NxSeq Universal Adaptor
Product form	:	Mixture
Product code	:	F813785

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

#### 1.3. Details of the supplier of the safety data sheet

Lucigen Corp. Legal entity of LGC, Biosearch Technologies 2905 Parmenter Street Middleton, WI 53562 U.S.A. Phone: (608) 831-9011 Fax: (608) 831-9012 E-mail: techsupport@LGCGroup.com

#### 1.4. Emergency telephone number

Emergency number

: 1-888-575-9695 (Biosearch Technologies: Monday-Friday, 8:00AM-5:00PM)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Not a hazardous substance or mixture.

#### 2.2. Label elements

#### GHS-US labelling

Not a hazardous substance or mixture.

#### 2.3. Other hazards

No additional information available.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

#### SECTION 4: First aid measures

4.1. Description of first aid measures				
First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.			
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. If not breathing, give artificial respiration. Consult a physician.			
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with tepid water for at least 15 minutes. If symptoms continue, consult a physician.			
First-aid measures after eye contact	: IF IN EYES: Immediately flush with tepid water for at least 15 minutes. Remove contact lenses if present and can easy to do so. Continue rinsing. If symptoms continue, consult a physician.			
First-aid measures after ingestion	: IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting. Consult a physician if symptoms persist. Do not give anything by mouth to an unconscious person.			
4.2. Most important symptoms and effects, both acute and delayed				
Symptoms/injuries	: Not expected to present a significant acute hazard under anticipated conditions of normal use.			
Symptoms/injuries after inhalation	: May cause upper respiratory irratation.			
Symptoms/injuries after skin contact	: May cause skin irritation.			





Symptoms/injuries after eye contact	No. 58 / Monday, March 26, 2012 / Rules and Regulations : Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.
	edical attention and special treatment needed
No additional information available.	eulear alleniion and special i ealthent heeded
SECTION 5: Firefighting measu	ires
5.1. Extinguishing media	
Suitable extinguishing media	: Incase of fire, use water, dry chemical, chemical foam, or alcohol-resistance foam. Use agents most appropriate to extinguish the fire.
5.2. Special hazards arising from t	he substance or mixture
Fire hazard	: Product is not flammable.
Explosion hazard	: Product is not explosive.
Reactivity	: No dangerous reactions known under normal conditions of use.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. In the event of fire and/or explosion, do not breathe fumes. Do not dispose of fire fighting water in the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release	measures
6.1. Personal precautions, protect	ive equipment and emergency procedures
Generalmeasures	: Ventilate area. Evacuate area. Keep upwind. Spill should be handled by trained clean-up crew properly equipped with respiratory equipment and full chemical protective gear (see Section 8)
6.1.1. For non-emergency personnel	
Protective equipment	: Wear Protective equipment as described in Section 8.
6.1.2. For emergency responders	
Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters	. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for cont	ainment and cleaning up
For containment	: Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Soak up spills with inert absorbants, such as vermiculite and sand. This material and its container must be disposed of in a safe way, and as per local, state, and federal legislation.
6.4. Reference to other sections	
No additional information available	ıge
No additional information available	ige
No additional information available SECTION 7: Handling and stora 7.1. Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Wash hands and other exposed areas with mild soap and wate
No additional information available SECTION 7: Handling and stora	: Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Wash hands and other exposed areas with mild soap and wate after working with mixture, before leaving the laboratory, before eating, drinking or smoking and when leaving work. Avoid ingestion and inhalation. Keep container tightly closed.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.



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#### 8.2. Exposure controls

Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas. Emergency safety shower and eye wash should be available.
Personal protective equipment	: Gloves. Protective goggles.
Hand protection	: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves for this specific application can be recommended by the glove supplier.
Eye protection	: Use eye protection suitable to the environment. Avoid direct contact with eyes.
Skin and body protection	: Wear long sleeves, and chemically impervious PPE to minimize bodily exposure.
Respiratory protection	: Use NIOSH-approved dust/particulate respirator as needed. Where vapor, mist, or dust exceed

PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties			
Physical state	: Liquid containing dissolved material		
Color	: Colorless		
Odor	: No data available		
Odor Threshold	: No data available		
рН	: ~7		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Relative evaporation rate	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: No data available		
Log Pow	: No data available		
Log Kow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: No data available		
9.2. Other information			

#### 9.2. Other information

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3. Possibility of hazardous reactions

None known.



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#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

None known.

#### SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not available
Skin corrosion/irritation	: Not available
Serious eye damage/irritation	: Not available
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
Specific target organ toxicity (single exposure)	: Not available
Specific target organ toxicity (repeated exposure)	: Not available
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause upper respiratory irratation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.

SECT	ION 12: Ecological informat	on
12.1.	Toxicity	
No add	litional information available.	
12.2.	Persistence and degradability	
No add	litional information available.	
12.3.	Bioaccumulative potential	
No add	litional information available.	
12.4.	Mobility in soil	
No add	litional information available.	
12.5.	Other adverse effects	
No add	litional information available.	
SECT	ION 13: Disposal considerat	ions
13.1.	Waste treatment methods	
Wastet	treatment methods	: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Product should not be discharged to surface waters without a NPDES permit.
Waste	disposal recommendations	: Dispose in a safe manner in accordance with local, state, and federal regulations. Avoid release to the environment.

# SECTION 14: Transport information In accordance with DOT Not hazardous for transport Additional information Other information : No supplementary information available. Transport by sea No additional information available Page 4 of 6



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#### Air transport

No additional information available

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### **OSHA Hazards**

No OSHA Hazards

#### **CERCLA Reportable Quantity**

This product does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This product does not contain any components with a section 304 EHS RQ.

#### SARA 311/312 Hazards

No SARA Hazards

#### SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### 15.2. International regulations

No additional information available.

#### 15.3. US State regulations

**California Proposition 65** 

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

0 0 0

#### This mixture not listed on the following:

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

<b>SECTION 16: Other inform</b>	ation
Indication of changes	: B: Update branding
Revision date	: 07/29/2021
Otherinformation	: Author: Biosearch Technologies.
NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
	$\sim$

HMIS III Rating	
Health	:
Flammability	:
Physical	:
Personal Protection	:



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#### 1.1. Product identifier

Product name	:	Adaptor Dilution Buffer
Product form	:	Mixture
Product code	:	F883786

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

: Laboratory chemical.

#### 1.3. Details of the supplier of the safety data sheet

Lucigen Corp. Legal entity of LGC, Biosearch Technologies 2905 Parmenter Street Middleton, WI 53562 U.S.A. Phone: (608) 831-9011 Fax: (608) 831-9012 E-mail: techsupport@LGCGroup.com

#### 1.4. Emergency telephone number

Emergency number

: 1-888-575-9695 (Biosearch Technologies: Monday-Friday, 8:00AM-5:00PM)

#### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

#### **GHS-US** classification

Not classified.

#### 2.2. Label elements

GHS-US labelling

#### No labelling applicable.

2.3. Other hazards

None.

2.4. Unknown acute toxicity (GHS-US)

No data available.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixture

Name	Product identifier	%
Tris, CAS # 77-86-1 EC # 201-064-4 Chemical Formula: C <sub>4</sub> H <sub>11</sub> NO <sub>3</sub> Molecular Weight: 121.14 g/mol Synonyms: 2-Amino-2-(hydroxymethyl)-1,3-propanediol, THAM, Trometamol, Tris base, Tris(hydroxymethyl)aminomethane	Ingredient in product.	3%

#### **SECTION 4: First aid measures** Description of first aid measures 4.1. First-aid measures general : If exposed or concerned, consult a physician. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person. First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. If not breathing, give artificial respiration. Consult a physician. First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin for at least 15 minutes with tepid water. Consult a physician. : IF IN EYES: Immediately flush with plenty of tepid water for at least 15 minutes. Remove First-aid measures after eye contact contact lenses if present and easy to do so. Continue rinsing. Consult a physician. First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly and consult a physician. Do not induce vomiting. Page 1 of 6



BIOSEARCH TECHNOLOGIES

#### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant acute hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	: May cause irritation to respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause irritation, redness, and pain.
Symptoms/injuries after ingestion	: May cause gastrointestinal distress, nausea, and diarrhea.
4.3. Indication of any immediate medical attention and special treatment needed	
No additional information.	

SECTION 5: Firefighting measures		
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Water spray, carbon dioxide, dry chemical powder, alcohol-resistant foam, or appropriate foam.
5.2. Special hazards arising from the substance or mixture		
Fire haz	zard	: Emits toxic fumes under fire conditions.
Explosio	on hazard	: No data available.
Reactivi	ity	: Can react with oxidizing agents.
5.3.	Advice for firefighters	
Firefight	ting instructions	: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Protecti	ion during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

6.1.	Personal precautions, protective equipment and emergency procedures		
General	measures	:	Ventilate area. Evacuate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).
6.1.1.	For non-emergency personnel		
Protectiv	e equipment	:	Wear Personal Protective Equipment as described in Section 8.
6.1.2.	For emergency responders		
Protectiv	re equipment	:	Wear suitable protective clothing, gloves, respirator, and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions		
Prevent	entry to sewers and public waters. Notif	уa	uthorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3.	Methods and material for containme	ent	and cleaning up
For cont	ainment	:	Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migration and entry into sewers or streams.
Methods	for cleaning up	:	Soak up spills with inert absorbants, such as sand or vermiculite as soon as possible. Place in closed waste container for disposal. This material and its container must be disposed of in a safe way, and as per local, state, and federal legislation.

#### 6.4. Reference to other sections

No additional information available

# SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Wash hands and other exposed areas with mild soap and water

personal protective equipment. Wash hands and other exposed areas with mild soap and water after handling material, leaving the laboratory, before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a -20°C freezer without a defrost cycle.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Contains no substances with occupational exposure limits.



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#### 8.2. Exposure controls

Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas. Emergency safety shower and eye wash station should be available. Avoid prolonged or repeated exposure.
Personal protective equipment	Gloves. Protective goggles. Laboratory Coat.
Hand protection	Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves for this specific application can be recommended by the glove supplier. Suggested glove materials are: Neoprene, Nitrile.
Eye protection	Safety goggles should be worn when working with mixture. Avoid direct contact with eyes.
Skin and body protection	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
Respiratory protection	Use NIOSH/MSHA-approved dust/particulate respirator if exposure symptoms develop. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment. Do not breathe in vapour, mist, or dust.

#### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and c	he	mical properties
Physical state	:	Liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point	:	No data available
Freezing point (50% aquesous solution)	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility in Water	:	No data available
Log Pow	:	No data available
Log Kow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available
9.2. Other information		

None.

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3. Possibility of hazardous reactions

None known.

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#### 10.4. Conditions to avoid

Hygroscopic environments.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxides.

SECT	ION 11: Toxicological information
11.1.	Information on toxicological effects

A such a fact faith a		
Acute toxicity	: N	lo data available
Skin corrosion/irritation	: N	No data available
Serious eye damage/irritation	: N	No data available
Respiratory or skin sensitisation	: N	No data available
Germ cell mutagenicity	: N	No data available
Carcinogenicity		ARC – No component of this product present at levels greater than or equal to 0.1% is lientified as probablye, possible, or confirmed human carcinogen by IARC.
		ACGIH – No component of this product present at levels greater than or equal to 0.1% is dentified as a carcinogen or potential carcinogen by ACGIH.
		NTP – No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticpated carcinogen by NTP.
		DSHA – No component of this product present at levels greater than or equal to 0.1% is dentified as a carcinoen or potential carcinogen by OSHA.
Reproductive toxicity	: N	lo data available
Specific target organ toxicity (single exposure)	: No	lo data available
Specific target organ toxicity (repeated exposure)	: No	lo data available
Aspiration hazard	: N	lo data available
Symptoms/injuries after inhalation	: M	lay cause irritation to respiratory tract.
Symptoms/injuries after skin contact	: M	lay cause mild irritation to skin.
Symptoms/injuries after eye contact	: M	lay cause irritation, redness, and pain.
Symptoms/injuries after ingestion	: M	lay cause gastrointestinal distress, nausea, and diarrhea.
Additional Information		o the best of our knowledge, the chemical, physical, and toxicological properties have not een thoroughly investigated.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods	: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Product should not be discharged to surface waters without a NPDES permit.		
Waste disposal recommendations	: Dispose in a safe manner in accordance with local, state, and federal regulations. Avoid release to the environment.		



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#### SECTION 14: Transport information

#### DOT

Not dangerous goods

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This product does not contain any components with a section 304 EHS RQ.

#### SARA 311/312 Hazards

No SARA Hazards

#### SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313**

This materials does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### 15.2. International regulations.

None.

#### 15.3. US State regulations

#### California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### New Jersey Right to Know Hazardous Substance List Tris(hydroxymethyl)aminomethane, CAS 77-86-1

#### Pennsylvania Right to Know List

Tris(hydroxymethyl)aminomethane, CAS 77-86-1

SECTION 16: Other information	tion
Indication of changes	: Revision B: Updated branding.
Revision date	: 10/13/2021
Otherinformation	: Author: Biosearch Technologies
NFPA health hazard	: 0 – Poses no health hazard, no precaustions necessary and would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 – Material that will not burn under typical fire conditions, including intrinsically noncombustibel materials such as concrete, stone and sand.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 0
Flammability	: 0
Physical Hazard	: 0
Personal Protection	:

# Adaptor Dilution Buffer. Safety Data Sheet

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### Safety Data Sheet

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

: Primer 501-508

: Laboratory Chemicals.

- : Mixture
  - : F72501-1, F72502-1, F72503-1, F72504-1, F72505-1, F72506-1, F72507-1, F72508-1

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

#### 1.3. Details of the supplier of the safety data sheet

Lucigen Corp.

Product name Product form

Product code

Legal entity of LGC, Biosearch Technologies 2905 Parmenter Street Middleton, WI 53562 U.S.A. Phone: (608) 831-9011 Fax: (608) 831-9012 E-mail: techsupport@LGCGroup.com

#### 1.4. Emergency telephone number

Emergency number

: 1-888-575-9695 (Biosearch Technologies: Monday-Friday, 8:00AM-5:00PM)

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Not a hazardous substance or mixture.

#### 2.2. Label elements

#### **GHS-US** labelling

Not a hazardous substance or mixture.

#### 2.3. Other hazards

No additional information available.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available.

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substance Not applicable

Notapplicable

#### 3.2. Mixture

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.		
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. If not breathing, give artificial respiration. Consult a physician.		
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with tepid water for at least 15 minutes. If symptoms continue, consult a physician.		
First-aid measures after eye contact	: IF IN EYES: Immediately flush with tepid water for at least 15 minutes. Remove contact lenses if present and can easy to do so. Continue rinsing. If symptoms continue, consult a physician.		
First-aid measures after ingestion	: IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting. Consult a physician if symptom spersist. Do not give anything by mouth to an unconscious person.		

Safety Data Sheet Prepared according to Federal Register / Vol. 77, I	No. 58 / Monday, March 26, 2012 / Rules and Regulations
Symptoms/injuries Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact Symptoms/injuries after ingestion	<ul> <li>I effects, both acute and delayed <ul> <li>Not expected to present a significant acute hazard under anticipated conditions of normal use.</li> <li>May cause upper respiratory irratation.</li> <li>May cause skin irritation.</li> <li>Direct contact with the eyes is likely to be irritating.</li> <li>May cause gastrointestinal irritation.</li> </ul> </li> <li>edical attention and special treatment needed</li> </ul>
SECTION 5: Firefighting measured	res
5.1. Extinguishing media Suitable extinguishing media	: Incase of fire, use water, dry chemical, chemical foam, or al cohol-resistance foam. Use agents most appropriate to extinguish the fire.
5.2. Special hazards arising from the	ne substance or mixture
Fire hazard	: Product is not flammable.
Explosion hazard	: Product is not explosive.
Reactivity	: No dangerous reactions known under normal conditions of use.
5.3. Advice for firefighters	
Firefightinginstructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. In the event of fire and/or explosion, do not breathe fumes. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release	measures
6.1. Personal precautions, protecti	ive equipment and emergency procedures
General measures	: Ventilate area. Evacuate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).
6.1.1. For non-emergency personnel	
Protective equipment	: Wear Protective equipment as described in Section 8.
6.1.2. For emergency responders	
Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Env ironmental precautions Prevent entry to sewers and public waters.	Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for conta	ainment and cleaning up
For containment	: Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Soak up spills with inert absorbants, such as vermiculite and sand. This material and its container must be disposed of in a safe way, and as per local, state, and federal legislation.
6.4. Reference to other sections	
No additional information available	

# SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Wash hands and other exposed areas with mild soap and water after working with mixture, before leaving the laboratory, before eating, drinking or smoking and when leaving work. Avoid ingestion and inhalation. Keep container tightly closed.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store in at either -20°C or -70°C. Keep container tightly closed.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Primer 501-508.

Components with workplace control parameters



#### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Contains no substances with occupational exposure limit values.

#### 8.2. **Exposure controls**

Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas. Emergency safety shower and eye wash should be available.
Personal protective equipment	: Gloves. Protective goggles.
Hand protection	: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves for this specific application can be recommended by the glove supplier.
Eye protection	: Use eye protection suitable to the environment. Avoid direct contact with eyes.
Skin and body protection	: Wear long sleeves, and chemically impervious PPE to minimize bodily exposure.

: Wear long sleeves, and chemically impervious PPE to minimize bodily exposure. Respiratory protection

: Use NIOSH-approved dust/particulate respirator as needed. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties	

9.1. Information on basic physical and chemical properties		
Physical state	: Liquid containing dissolved material	
Color	: Colorless	
Odor	: No data available	
OdorThreshold	: No data available	
рН	: ~7	
Meltingpoint	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Log Kow	: No data available	
Auto-ignition temperature	: No data available	
Decompositiontemperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
0.0 Other information		

#### 9.2. Other information

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. **Reactivity**

No dangerous reactions known under normal conditions of use.

#### 10.2. **Chemical stability**

Stable under use and storage conditions as recommended in section 7.

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**10.3.** Possibility of hazardous reactions None known.

# **10.4.** Conditions to avoid None known.

**10.5.** Incompatible materials None known.

**10.6.** Hazardous decomposition products

None known.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity	: Not available
Skin corrosion/irritation	: Not available
Seriouseye damage/irritation	: Not available
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
Specific target organ toxicity (single exposure)	: Not available
Specific target organ toxicity (repeated exposure)	: Not available
Aspiration hazard	: Not classified
Symptoms/injuries after in halation	: May cause upper respiratory irratation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyesis likely to be irritating.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available.

#### 12.2. Persistence and degradability

No additional information available.

#### 12.3. Bioaccumulative potential

No additional information available.

#### 12.4. Mobility in soil

No additional information available.

#### 12.5. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Product should not be discharged to surface waters without a NPDES permit.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local, state, and federal regulations. Avoid release to the environment.
	<b>4</b>

#### **SECTION 14: Transport information**

In accordance with DOT Not hazardous for transport Additional information Other information

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: No supplementary information available.



#### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

**OSHA Hazards** No OSHA Hazards

#### **CERCLA Reportable Quantity**

This product does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This product does not contain any components with a section 304 EHS RQ.

#### SARA 311/312 Hazards

No SARA Hazards

#### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### 15.2. International regulations

No additional information available.

#### 15.3. US State regulations

#### California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### This mixture not listed on the following:

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other inform	ation
Indication of changes	: Revision B: Update branding.
Revision date	: 07/29/2021
Otherinformation	: Author: Biosearch Technologies
NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materialsthat will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Bating	

HMIS III Rating	
Health	: 0
Flammability	: 0
Physical	: 0
Page 5 of 6	



Safety Data Sheet Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Personal Protection

This information is disclosed to the best of Biosearch Technologies' knowledge. This document does not constitute a contractual relation ship with product end users or handlers with respect to the possible presence of hazards in this item. Disposal should be in accordance with applicable regional, national and local laws and regulations.



Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 07/29/2021 Version: B



#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Primer 701-712
Plimer / UI-/ IZ

Product name Product form Product code

- Mixturo
  - : Mixture

: F72701-1, F72702-1, F72703-1, F72704-1, F72705-1, F72706-1, F72707-1, F72708-1, F72709-1, F72710-1, F72711-1, F72712-1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

: Laboratory Chemicals.

#### 1.3. Details of the supplier of the safety data sheet

Lucigen Corp. Legal entity of LGC, Biosearch Technologies 2905 Parmenter Street Middleton, WI 53562 U.S.A. Phone: (608) 831-9011 Fax: (608) 831-9012 E-mail: techsupport@LGCGroup.com

#### 1.4. Emergency telephone number

Emergency number

: 1-888-575-9695 (Biosearch Technologies: Monday-Friday, 8:00AM-5:00PM)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Not a hazardous substance or mixture.

#### 2.2. Label elements

#### GHS-US labelling

Not a hazardous substance or mixture.

#### 2.3. Other hazards

No additional information available.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available.

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with tepid water for at least 15 minutes. If symptoms continue, consult a physician.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with tepid water for at least 15 minutes. Remove contact lenses if present and can easy to do so. Continue rinsing. If symptoms continue, consult a physician.
First-aid measures after ingestion	: IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting. Consult a physician if symptomspersist. Do not give anything by mouth to an unconscious person.



Safety Data Sheet Prepared according to Federal Register / Vol. 7	7, No. 58 / Monday, March 26, 2012/ Rules and Regulations
Symptoms/injuries Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact Symptoms/injuries after ingestion	<ul> <li>nd effects, both acute and delayed <ol> <li>Not expected to present a significant acute hazard under anticipated conditions of normal use.</li> <li>May cause upper respiratory irratation.</li> <li>May cause skin irritation.</li> <li>Direct contact with the eyesis likely to be irritating.</li> <li>May cause gastrointestinal irritation.</li> </ol> </li> <li>medical attention and special treatment needed</li> </ul>
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media Suitable extinguishing media	: Incase of fire, use water, dry chemical, chemical foam, or al cohol-resistance foam. Use agents most appropriate to extinguish the fire.
5.2. Special hazards arising from Fire hazard Explosion hazard	: Product is not flammable. : Product is not explosive.
Reactivity	: No dangerous reactions known under normal conditions of use.
5.3. Advice for firefighters Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. In the event of fire and/or explosion, do not breathe fumes. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental releas	e measures
6.1. Personal precautions, protections	ctive equipment and emergency procedures
General measures	: Ventilate area. Evacuate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).
6.1.1. For non-emergency personn	el
Protective equipment	: Wear Protective equipment as described in Section 8.
6.1.2. For emergency responders Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions Prevent entry to sewers and public wate	rs. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for con For containment	ntainment and cleaning up : Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migration and entry into sewers or streams.
Methodsfor cleaning up	: Soak up spills with inert absorbants, such as vermiculite and sand. This material and its container must be disposed of in a safe way, and as per local, state, and federal legislation.
6.4. Reference to other sections No additional information available	

#### SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Wash hands and other exposed areas with mild soap and water after working with mixture, before leaving the laboratory, before eating, drinking or smoking and when leaving work. Avoid ingestion and inhalation. Keep container tightly closed.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in at either -20°C or -70°C. Keep container tightly closed.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. **Control parameters**

Components with workplace control parameters



# Primer 701-712.

#### 

#### Safetv Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Contains no substances with occupational exposure limit values.

#### 8.2. **Exposure controls**

Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas. Emergency safety shower and eye wash should be available.
Personal protective equipment	: Gloves. Protective goggles.
Hand protection	: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves for this specific application can be recommended by the glove supplier.
Eye protection	: Use eye protection suitable to the environment. Avoid direct contact with eyes.
Skin and body protection	: Wear long sleeves, and chemically impervious PPE to minimize bodily exposure.

: Use NIOSH-approved dust/particulate respirator as needed. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Respiratory protection

9.1.	9.1. Information on basic physical and chemical properties		
Physical state		: Liquid containing dissolved material	
Color		: Colorless	
Odor		: No data available	
Odor T	hreshold	: No data available	
pН		: ~7	
Meltin	gpoint	: No data available	
Freezi	ng point	: No data available	
Boiling	g point	: No data available	

**SECTION 9: Physical and chemical properties** 

Boiling point	: No data available
Flashpoint	: No data available
Relative evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. **Reactivity**

No dangerous reactions known under normal conditions of use.

#### 10.2. **Chemical stability**

Stable under use and storage conditions as recommended in section 7.

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Safety Data Sheet

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**10.3.** Possibility of hazardous reactions None known.

# **10.4.** Conditions to avoid None known.

**10.5.** Incompatible materials None known.

**10.6.** Hazardous decomposition products None known.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity	: Not available		
Skin corrosion/irritation	: Not available		
Seriouseye damage/irritation	: Not available		
Respiratory or skin sensitisation	: Not available		
Germ cell mutagenicity	: Not available		
Carcinogenicity	: Not available		
Reproductive toxicity	: Not available		
Specific target organ toxicity (single exposure)	: Not available		
Specific target organ toxicity (repeated exposure)	: Not available		
Aspiration hazard	: Not classified		
Symptoms/injuries after inhalation	: May cause upper respiratory irratation.		
Symptoms/injuries after skin contact	: May cause skin irritation.		
Symptoms/injuries after eye contact	: Direct contact with the eyesislikely to be irritating.		
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.		

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available.

#### 12.2. Persistence and degradability

No additional information available.

#### 12.3. Bioaccumulative potential

No additional information available.

#### 12.4. Mobility in soil

No additional information available.

#### 12.5. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste treatment methods	: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Product should not be discharged to surface waters without a NPDES permit.			
Waste disposal recommendations	: Dispose in a safe manner in accordance with local, state, and federal regulations. Avoid release to the environment.			
	<b>0</b>			

#### **SECTION 14: Transport information**

In accordance with DOT Not hazardous for transport Additional information Other information

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: No supplementary information available.



#### Safety Data Sheet

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#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

**OSHA Hazards** No OSHA Hazards

# CERCLA Reportable Quantity

This product does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This product does not contain any components with a section 304 EHS RQ.

#### SARA 311/312 Hazards

No SARA Hazards

#### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### 15.2. International regulations

No additional information available.

#### 15.3. US State regulations

#### California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### This mixture not listed on the following:

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other inform	ation
Indication of changes	: Revision B: Update branding.
Revision date	: 07/29/2021
Otherinformation	: Author: Biosearch Technologies
NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materialsthat will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	

HMIS III Rating	
Health	: 0
Flammability	: 0
Physical	: 0
Page 5 of 6	



#### Safety Data Sheet Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Personal Protection

This information is disclosed to the best of Biosearch Technologies' knowledge. This document does not constitute a contractual relation ship with product end users or handlers with respect to the possible presence of hazards in this item. Disposal should be in a ccordance with applicable regional, national and local laws and regulations.

