

# 19 July 2021

# Kit Components

Product Code	Description
60052-0, 60052-1, 60052-2, 60052-3, 60052-4	E. cloni™10G ELITE Electrocompetent Cells (Duo, Sixpack)

# Components

E. cloni 10G Elite Electrocompetent Cells	F96505, F96050
pUC 19Transformation Control	F92078-1
Recovery Media	F98226-0, F98226-1



Safetv Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 02/04/2022 Version: B



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

# 1.1. Product identifier

Product name	: E. cloni 10G Elite Electrocompetent Cells
Product form	: Mixture
Product code	: F96050, F96421, F96505

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

Use of the substance/mixture : In vitro laboratory transformation of cells by DNA.

# 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

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

Name	Product identifier	%
<b>Dimethyl sulfoxide, CAS# 67-68-5</b> Contains no other hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	Ingredient in product.	≥ 5- ≤ 10

# 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. First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. First-aid measures after eye contact : IF INEYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

First-aid measures after ingestion

: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

: Not expected to present a significant acute hazard under anticipated conditions of normal use.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

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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.
4.3. Indication of any immediate m	nedical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measu	ires
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Foam. Sand. Water spray. Carbon dioxide.
5.2. Special hazards arising from	
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. 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	tive 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 personne	I
Protective equipment	: Wear Protective equipment as described in Section 8.
6.1.2. For emergency responders	
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Protective equipment	
Protective equipment 6.2. Environmental precautions	
Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters	refer to section 8: "Exposure controls/personal protection".
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### 8.1. **Control parameters**

# Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Dimethyl sulfoxide	67-38-5	TWA	250.000000 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

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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. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.
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. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.
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/coveralls to minimize bodily exposure.
Respiratory protection	: Use NIOSH-approved dust/particulate respirator. 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		
Color	: No data available		
Odor	: No data available		
Odor Threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: 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		
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.



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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 classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exp	osure) : Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
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.

# **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/national 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.



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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

# E. cloni® 10GF' Elite Electrocompetent Bacterial Cells

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory or are exempt

# 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 information**

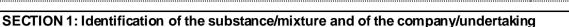
Indication of changes Revision date	: Revision B: Update branding. : 02/04/2022
Otherinformation	: Author: Biosearch Technologies
NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating	
Health	: 0
Flammability	: 0
Physical	: 0
Personal Protection	:

This information is disclosed to the best of Lucigen's knowledge. This document does not constitute a contractual relationship 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.

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Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 10/15/2021 Version: B



: Laboratory Chemicals.

# 1.1. Product identifier

Product name	: pUC19 Transformation Control
Product form	: Mixture
Product code	: F92078-1

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. 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

Non-hazardous mixture

# SECTION 4: First aid measures

4.1. Description of first aid measures			
First-aid measures general	<ul> <li>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.</li> </ul>		
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.		





### 4: • ~

Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.
4.3. Indication of any immediate m	edical attention and special treatment needed
No additional information available.	
SECTION 5: Firefighting measu	res
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
	ive equipment and emergency procedures
General measures	<ul> <li>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)</li> </ul>
6.1.1. For non-emergency personne	I
0 71	I : Wear Protective equipment as described in Section 8.
Protective equipment	
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# SECTION 8: Exposure controls/personal protection

### 8.1. **Control parameters**

Components with workplace control parameters

Contains no substances with occupational exposure limit values.



Safety Data Sheet

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# 8.2. Exposure controls

Appropriate engineering controls	<ul> <li>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.</li> </ul>
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	ion	
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

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### Air transport

No additional information available

# **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 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	
0.5 Tennsylvania - KTK (Kight to Khow) List	
SECTION 16: Other information	

Indication of changes	: Revision B: Update branding.
Revision date	: 10/15/2021
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.
HMIS III Rating	
Health	: 0

Health	•	0
Flammability	:	0
Physical	:	0
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

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

# 1.1. Product identifier

Product name	: Recovery Media
Product form	: Mixture
Product code	: F98226-0, F98226-1, F98226-3, F98226-6

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

Use of the substance/mixture : Laboratory reagent for *in vitro* research use only.

# 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

2.2. Label elements

# **GHS-US** labelling

No labeling applicable

2.3. Other hazards

Other hazards not contributing to the classification None under normal conditions.

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

No data available.

# SECTION 3: Composition/information on ingredients

### 3.1. Substance

Salts and non-animal origin media components for use in the growth of bacterial cultures.

### 3.2. Mixture

Name	Product identifier	%
Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	Not applicable.	Not applicable

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures 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. 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	: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.
<b>4.3.</b> Indication of any immediate me No additional information available	edical attention and special treatment needed
SECTION 5: Firefighting measu	res
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, carbon dioxide, dry chemical powder, or appropriate foam.
5.2. Special hazards arising from the	ne substance or mixture
Fire hazard	: Emits toxic fumes under fire conditions.
Explosion hazard	: Emits toxic fumes under fire conditions.
Reactivity	: No dangerous reactions known under normal conditions of use.
5.3. Advice for firefighters	
Firefighting instructions	: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
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	ve 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 Personal Protective Equipment as described in Section 8.
6.1.2. For emergency responders	
Protective 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.	Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for conta	inment 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 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 stora	ge
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 handling material, leaving the laboratory, before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage conditions	Store at -70°C. Keep container tightly closed. Do not store with sodium hydride, phosphorous trioxide, perchloric acid, chlorine, calcium hypochlorite, nitric acid, sulphuric acid, sodium peroxide, hydrogen peroxide, or potassium permanganate, as these substances may cause a

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

SECTION 7: Handling and storage		
7.1.	Precautions for safe handling	
Precau	tions 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 handling material, leaving the laboratory, before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including any incompatibilities		
Storag	e conditions	Store at -70°C. Keep container tightly closed. Do not store with sodium hydride, phosphorous trioxide, perchloric acid, chlorine, calcium hypochlorite, nitric acid, sulphuric acid, sodium peroxide, hydrogen peroxide, or potassium permanganate, as these substances may cause a violent or explosive reaction if they come in to direct contact. Mixture is hygroscopic.
SEC	ION 8: Exposure controls/pers	sonal protection

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### 8.1. **Control parameters**

### 8.2. Exposure controls

### Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas.



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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. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing. Wear long sleeves.
SECTION 0. Devoiced and show	ical proportion

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

9.1. Information on basic physical an	d chemical properties of glycerol
Physical state	: No data available
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. Hazardous plymerization does not occur.

# 10.4. Conditions to avoid

None known.

# 10.5. Incompatible materials

Strong oxidizing agents, strong bases.



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# 10.6. Hazardous decomposition products

Thermal decomposition generates : Not known.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

	Not object the set
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure	e) : Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause upper respiratory irratation. May cause headaches.
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.
Chronic symptoms	: No data available

# **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.	

# **SECTION 14: Transport information**

# In accordance with DOT

# Not hazardous for transport

Additional information

Otherinformation

: No supplementary information available.

# Transport by sea

No additional information available

# Air transport No additional information available

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# **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 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

European Union Directive 67/548/EEC: Irritant R36/38, irritant to eyes and skin. S26, in the case of eye contact, rinse immediately with plenty of water and consult a physician. S36, wear appropriate personal protective equipment.

### 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 Not Listed

# New Jersey Right to Know Hazardous Substance List

### Pennsylvania Right to Know List Not Listed

SECTION 16: Other inform	nation	
Indication of changes	: Revision B: Update branding.	
Revision date	: 11/09/2021	
Otherinformation	: Author: Biosearch Technologies.	
NFPA health hazard NFPA fire hazard	<ul> <li>: 1 – Exposure will cause irriation.</li> <li>: 1 – Flash point is at or above 93.3°C.</li> </ul>	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		

:	1
:	1
:	0
:	
	:

This information is disclosed to the best of Biosearch Technologies' knowledge. This document does not constitute a contractual relationship 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.

