

19 July 2021

Kit Components

Product Code	Description
60080-1, 60080-2	E. cloni™ 10G Supreme Electrocompetent Cells (Duo)

Components

E. cloni 10G Supreme Electrocompetent	F96080
Cells	
pUC 19Transformation Control	F92078-1
Recovery Media	F98226-1



Safety 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 Supreme Electrocompetent Cells
Product form	: Mixture
Product code	: F96080, F96450

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.

Details of the supplier of the safety data sheet 1.3.

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

Emergency telephone number 1.4.

Emergency number

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

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

GHS-US classification Not classified

2.2 Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

24 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	%
Dimethyl sulfoxide, CAS# 67-68-5 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 Description of first aid measures 4.1. 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 ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at First-aid measures after skin contact least 15 minutes.

: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact First-aid measures after eye contact lenses if present and easy to do so. Continue rinsing : 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.

First-aid measures after ingestion

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.



E. cloni[™] **10G Supreme Electrocompetent Cells.** Safety Data Sheet

Symptoms/injuries after skin contact	lo. 58 / Monday, March 26, 2012 / Rules and Regulations		
, ,	: May cause skin irritation.		
Symptoms/injuries after eye contact Symptoms/injuries after ingestion	 Direct contact with the eyes is likely to be irritating. May cause gastrointestinal irritation. 		
•	dical attention and special treatment needed		
No additional information available			
SECTION 5: Firefighting measur	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Dry powder. Foam. Sand. Water spray. Carbon dioxide.		
5.2. Special hazards arising from th	e 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. 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 r	neasures		
6.1. Personal precautions, protectiv	/e equipment and emergency procedures		
Generalmeasures	: Ventilate area. Evacuate area. Keep upwind. Spill should be handled by trained clean-up crep 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			
•	Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.		
6.3. Methods and material for conta			
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or		
r or containment	streams.		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation.		
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storage	je		
7.1. Precautions for safe handling			

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a well-ventilated place. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

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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 exposure)	: 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

Waste disposal recommendations

SECTION 13: Disposal considerations 13.1. Waste treatment methods

Wast	te trea	tment	met	hods

: 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.

: 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.

Transport by sea No additional information available Page 4 of 5

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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	ation
Indication of changes	: Revision B: Update branding.
Revision date	: 02/04/2022
Other information	: 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

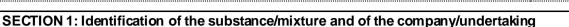
Flammability	:	0
Physical	:	0
Personal Protection	:	

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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: 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	 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.		





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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	 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
0 71	I : Wear Protective equipment as described in Section 8.
Protective equipment	
 6.1.1. For non-emergency personne Protective equipment 6.1.2. For emergency responders Protective equipment 	
Protective equipment 6.1.2. For emergency responders	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information
Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information
Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection". Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
 Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters 	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection". Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
 Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters 6.3. Methods and material for cont For containment 	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection". Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. ainment and cleaning up Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migration
Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters 6.3. Methods and material for cont For containment Methods for cleaning up	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection". Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. ainment and cleaning up Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migratior and entry into sewers or streams. Soak up spills with inert absorbants, such as vermiculite and sand. This material and its
 Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters 6.3. Methods and material for cont For containment Methods for cleaning up 	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection". Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. ainment and cleaning up Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migratior and entry into sewers or streams. Soak up spills with inert absorbants, such as vermiculite and sand. This material and its
Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters 6.3. Methods and material for cont For containment Methods for cleaning up 6.4. Reference to other sections No additional information available	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection". Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. ainment and cleaning up Contain any spills with dikes or inert absorbents (e.g., sand or verniculite) to prevent migratior and entry into sewers or streams. Soak up spills with inert absorbants, such as verniculite and sand. This material and its container must be disposed of in a safe way, and as per local, state, and federal legislation.
Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters 6.3. Methods and material for content For containment Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and store	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection". Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. ainment and cleaning up Contain any spills with dikes or inert absorbents (e.g., sand or verniculite) to prevent migratior and entry into sewers or streams. Soak up spills with inert absorbants, such as verniculite and sand. This material and its container must be disposed of in a safe way, and as per local, state, and federal legislation.
 Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters 6.3. Methods and material for content For containment Methods for cleaning up 6.4. Reference to other sections 	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection". Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. ainment 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. 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.
Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters 6.3. Methods and material for cont For containment Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and stora 7.1. Precautions for safe handling	 Wear Protective equipment as described in Section 8. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection". Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. ainment and cleaning up Contain any spills with dikes or inert absorbents (e.g., sand or verniculite) to prevent migratior and entry into sewers or streams. Soak up spills with inert absorbants, such as verniculite and sand. This material and its container must be disposed of in a safe way, and as per local, state, and federal legislation. age Do not handle until all safety precautions have been read and understood. Wear recommende 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 an 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	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

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 11/09/2021 Version: B



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.
4.3. 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

SEC	ION 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.
SECTION 8: Exposure controls/personal 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	 : 1 – Exposure will cause irriation. : 1 – Flash point is at or above 93.3°C. 	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		

:	1
:	1
:	0
:	
	:

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