

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

Identification of the substance or mixture:

Product name: Universal qPCR Master Mix Kit Name: Tick-borne encephalitis virus

Kit Name: Tick-borne encephalitis virus Company/undertaking identification:

Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1213. Concepción, Chile.

Phone: (56)-41-2790435

## SECTION 2: Hazards identification

GHS - Classification		Principle F	Routes of Exposure	Specific effects:		HMIS:	
Signal Word:	None	Potential I	Health Effects:	Carcinogenic effects:	None.	Health:	0
Health hazards:	Not classified	eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.	Flammability:	0
Physical hazards:	Not classified	Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.	Reactivity:	0
Hazard Statements:	Not Applicable	Inhalation:	May be harmful by inhalation.	Sensitization:	None.		
Precautionary:	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal		
Statements:					use conditions.		

# SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Glycerol 56-81-5 (10-30)	56-81-5	200-289-5	10-30

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## SECTION 4: First aid measures

Skin contact:	Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
inhalation:	Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

#### Most important symptoms and effects, both acute and delayed: Not Applicable

Notes to Physician: Treat symptomatically.

#### **SECTION 5:** Firefighting measures

Suitable extinguishing media:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Special protective equipment for firefighters:Wear self-contained breathing apparatus and protective suit.Specific hazards arising from the chemical:Not known

#### SECTION 6: Accidental release measures

Personal precautions:Use personal protection equipment.Methods for cleaning up:Soak up with inert absorbent material.

#### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. See Section 12 for more information.

## SECTION 7: Handling and storage

Handling:Always wear reccommended Personal Protective Equipment. No special handling advices are necessary.Storage:Keep in a dry, cool and well-ventilated place.

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

#### Exposure Limits:

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	None	None	None

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection:	In case of insufficient ventilation, wear suitable	Skin and Body Protection:	Lightweight protective clothing.
	respiratory equipment.	Hygiene measures:	Handle in accordance with good industrial
Hand protection:	Impervious gloves.		hygiene and safety practice.
Eye protection:	Wear safety glasses with side shields (or goggles).		

Environmental exposure controls: No special environmental precautions required.

# SECTION 9: Physical and chemical properties

a available

Evaporation rate:	No data available	Partition coefficient:	No data available
Flammability (solid, gas):	No data available	n-octanol/water:	
Oxidizing properties:	No information available	Vapor Pressure:	No data available
Water solubility soluble:	soluble	vapor density:	No data available
Upper explosion limit:	No data available	Viscosity:	No data available
Lower explosion limit:	No data available	pH value:	6-8

Stability:	Stable under normal conditions.	Hazardous decomposition:	Carbon oxides.
Materials to avoid:	Strong acids and oxidizing agents.	products:	
	Acetic anhydride. Isocyanates. Ammonia. Bases.	polymerization:	Hazardous polymerization does not occur.
Possibility of hazardous reactions:	Hazardous reaction has not been reported	Conditions to avoid:	None under normal processing.

## SECTION 11: Toxicological information

#### Acute Toxicity:

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)		
Glycerol	= 12600 mg/kg Oral	No data available	>570mg/m <sup>3</sup> (Rat)		
Principle Routes of Exposure Potential Health Effects:					

eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.
Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.
Inhalation:	May be harmful by inhalation.	Sensitization:	None.
Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal use conditions
Carcinogenic effects:	None.		

## SECTION 12: Ecological information

Ecotoxicity: Acute aquatic toxicity:		•		Not classified chro Log Pow. Inherently biodegr Material does not	radable.
Chemical Name	Freshwater Algae Data	Water Flea Data F	Freshwater Fish Species Data	Microtox Data	log Pow

Glycerol	Daphnia magna EC50>500 mg/L (24h)			logPow-1.76
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## SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## **SECTION 14:** Transport information

#### IATA

Proper Shipping Name:	No danger	ous good in sense of these transport regulations	Packing group:	None
Hazard Class:	None		UN-No:	None
Subsidiary class:	None		Environmental hazards:	None

#### SECTION 15: Regulatory information

Component	US TSCA	US Federal Regulations:
Glycerol 56-81-5 (10-30)	Listed	SARA 313 This product is not regulated by SARA.
		This product is not regulated by SARA.

SDS sections updated.

#### **US State Regulations:**

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

#### WHMIS Hazard Class:

#### Non-controlled

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

**Clean Air Act, Section 112 Hazardous** 

Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

## SECTION 16: Other information

#### **Reason for revision:**

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"



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

Identification of the substance or mixture:

 Product name:
 Primer, Probes and Internal Control Mix

 Kit Name:
 Tick-borne encephalitis virus

Company/undertaking identification:

Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1213. Concepción, Chile.

Phone: (56)-41-2790435

## SECTION 2: Hazards identification

GHS - Classification		Principle F	Routes of Exposure	Specific effects:		HMIS:	
Signal Word:	None	Potential I	Health Effects:	Carcinogenic effects:	None.	Health:	0
Health hazards:	Not classified	eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.	Flammability:	0
Physical hazards:	Not classified	Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.	Reactivity:	0
Hazard Statements:	Not Applicable	Inhalation:	May be harmful by inhalation.	Sensitization:	None.		
Precautionary:	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal		
Statements:					use conditions.		

# SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Glycerol 56-81-5 (10-30)	56-81-5	200-289-5	10-30

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## SECTION 4: First aid measures

Skin contact:	Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
inhalation:	Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

#### Most important symptoms and effects, both acute and delayed: Not Applicable

Notes to Physician: Treat symptomatically.

#### **SECTION 5:** Firefighting measures

Suitable extinguishing media:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Special protective equipment for firefighters:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Specific hazards arising from the chemical:Not known

#### SECTION 6: Accidental release measures

Personal precautions:Use personal protection equipment.Methods for cleaning up:Soak up with inert absorbent material.

#### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. See Section 12 for more information.

## SECTION 7: Handling and storage

Handling:Always wear reccommended Personal Protective Equipment. No special handling advices are necessary.Storage:Keep in a dry, cool and well-ventilated place.

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

#### **Exposure Limits:**

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	None	None	None

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection:	In case of insufficient ventilation, wear suitable	Skin and Body Protection:	Lightweight protective clothing.
	respiratory equipment.	Hygiene measures:	Handle in accordance with good industrial
Hand protection:	Impervious gloves.		hygiene and safety practice.
Eye protection:	Wear safety glasses with side shields (or goggles).		

Environmental exposure controls: No special environmental precautions required.

# SECTION 9: Physical and chemical properties

General information	n:			
Form:	Liquid	Boiling point / boiling range:	°C >100	°F >212
Appearance:	No information available	Melting point / melting range:	°C >0	°F >32
Odor:	No data available	flash point:	°C >90	°F >160
Odor Threshold:	No data available	Autoignition Temperature:	°C No data available	°F No data available

Evaporation rate:	No data available	Partition coefficient:	No data available
Flammability (solid, gas):	No data available	n-octanol/water:	
Oxidizing properties:	No information available	Vapor Pressure:	No data available
Water solubility soluble:	soluble	vapor density:	No data available
Upper explosion limit:	No data available	Viscosity:	No data available
Lower explosion limit:	No data available	pH value:	6-8

Stability:	Stable under normal conditions.	Hazardous decomposition:	Carbon oxides.
Materials to avoid:	Strong acids and oxidizing agents.	products:	
	Acetic anhydride. Isocyanates. Ammonia. Bases.	polymerization:	Hazardous polymerization does not occur.
Possibility of hazardous reactions:	Hazardous reaction has not been reported	Conditions to avoid:	None under normal processing.

## **SECTION 11:** Toxicological information

#### Acute Toxicity:

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)			
Glycerol	= 12600 mg/kg Oral	No data available	>570mg/m <sup>3</sup> (Rat)			
Principle Routes of Exposure Potential Health Effects:						
eyes:	May cause eye irritation with susceptible		None.			

Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.
Inhalation:	May be harmful by inhalation.	Sensitization:	None.
Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal use conditions
Carcinogenic effects:	None.		

## **SECTION 12:** Ecological information

Ecotoxicity: Acute aquatic toxicity:				Not classified chro Log Pow. Inherently biodeg Material does not	radable.
Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
- · ·		<b>_</b>			

Glycerol Daphnia magna EC50>500 mg/L (24h)	logPow-1.76
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## **SECTION 13:** Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## **SECTION 14:** Transport information

#### **IATA**

Proper Shipping Name:	No danger	ous good in sense of these transport regulation	s Packing group:	None
Hazard Class:	None		UN-No:	None
Subsidiary class:	None		Environmental hazards:	None

## **SECTION 15:** Regulatory information

Component	US TSCA	US Federal Regulations:
Glycerol 56-81-5 (10-30)	Listed	SARA 313 This product is not regulated by SARA.

#### **US State Regulations:**

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

#### WHMIS Hazard Class:

#### Non-controlled

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

**Clean Air Act, Section 112 Hazardous** 

Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

## SECTION 16: Other information

#### **Reason for revision:**

SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"



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

Identification of the substance or mixture:

Product name: One qRTPCR Enzyme Mix

Kit Name: Tick-borne encephalitis virus

Company/undertaking identification: Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1213. Concepción, Chile.

Phone: (56)-41-2790435

## SECTION 2: Hazards identification

GHS - Classification		Principle F	Routes of Exposure	Specific effects:		HMIS:	
Signal Word:	None	Potential I	Health Effects:	Carcinogenic effects:	None.	Health:	0
Health hazards:	Not classified	eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.	Flammability:	0
Physical hazards:	Not classified	Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.	Reactivity:	0
Hazard Statements:	Not Applicable	Inhalation:	May be harmful by inhalation.	Sensitization:	None.		
Precautionary:	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal		
Statements:					use conditions.		

# SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Glycerol 56-81-5 (10-30)	56-81-5	200-289-5	10-30

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## SECTION 4: First aid measures

Skin contact:	Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
inhalation:	Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Most important symptoms and effects, both acute and delayed: Not Applicable

Notes to Physician: Treat symptomatically.

#### SECTION 5: Firefighting measures

Suitable extinguishing media:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Special protective equipment for firefighters:Wear self-contained breathing apparatus and protective suit.Specific hazards arising from the chemical:Not known

#### SECTION 6: Accidental release measures

Personal precautions:Use personal protection equipment.Methods for cleaning up:Soak up with inert absorbent material.

#### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. See Section 12 for more information.

## SECTION 7: Handling and storage

Handling:Always wear reccommended Personal Protective Equipment. No special handling advices are necessary.Storage:Keep in a dry, cool and well-ventilated place.

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

#### Exposure Limits:

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup>	None	None	None
	5 mg/m <sup>3</sup>			

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection:	In case of insufficient ventilation, wear suitable	Skin and Body Protection:	Lightweight protective clothing.
	respiratory equipment.	Hygiene measures:	Handle in accordance with good industrial
Hand protection:	Impervious gloves.		hygiene and safety practice.
Eye protection:	Wear safety glasses with side shields (or goggles).		

Environmental exposure controls: No special environmental precautions required.

# SECTION 9: Physical and chemical properties

General information	n:			
Form:	Liquid	Boiling point / boiling range:	°C >100	°F >212
Appearance:	No information available	Melting point / melting range:	°C >0	°F >32
Odor:	No data available	flash point:	°C >90	°F >160
Odor Threshold:	No data available	Autoignition Temperature:	°C No data available	°F No data available

Evaporation rate:	No data available	Partition coefficient:	No data available
Flammability (solid, gas):	No data available	n-octanol/water:	
Oxidizing properties:	No information available	Vapor Pressure:	No data available
Water solubility soluble:	soluble	vapor density:	No data available
Upper explosion limit:	No data available	Viscosity:	No data available
Lower explosion limit:	No data available	pH value:	6-8

Stability:	Stable under normal conditions.	Hazardous decomposition:	Carbon oxides.
Materials to avoid:	Strong acids and oxidizing agents.	products:	
	Acetic anhydride. Isocyanates. Ammonia. Bases.	polymerization:	Hazardous polymerization does not occur.
Possibility of hazardous reactions:	Hazardous reaction has not been reported	Conditions to avoid:	None under normal processing.

## SECTION 11: Toxicological information

#### Acute Toxicity:

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)			
Glycerol	= 12600 mg/kg Oral	No data available	>570mg/m <sup>3</sup> (Rat)			
Principle Routes of Exposure Potential Health Effects:						

eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.
Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.
Inhalation:	May be harmful by inhalation.	Sensitization:	None.
Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal use conditions
Carcinogenic effects:	None.		

## SECTION 12: Ecological information

Ecotoxicity: Acute aquatic toxicity:		•		Not classified chr Log Pow. Inherently biodeg Material does not	radable.
Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow

Glycerol Daphnia magna EC50>500 mg/L (24h)	logPow-1.76
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## SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## **SECTION 14:** Transport information

#### IATA

Proper Shipping Name:	No danger	ous good in sense of these transport regulations	Packing group:	None
Hazard Class:	None		UN-No:	None
Subsidiary class:	None		Environmental hazards:	None

#### SECTION 15: Regulatory information

Component	US TSCA	US Federal Regulations:	
Glycerol 56-81-5 (10-30)	Listed	SARA 313 This product is not regulated by SARA.	
		This product is not regulated by SAIVA.	

#### US State Regulations:

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

#### WHMIS Hazard Class:

#### Non-controlled

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

**Clean Air Act, Section 112 Hazardous** 

Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

## SECTION 16: Other information

#### **Reason for revision:**

SDS sections updated.

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

Identification of the substance or mixture:

Product name: TBEV Positive Control

Kit Name: Tick-borne encephalitis virus

Company/undertaking identification: Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1213. Concepción, Chile.

Phone: (56)-41-2790435

### SECTION 2: Hazards identification

GHS - Classification		Principle F	Routes of Exposure	Specific effects:		HMIS:	
Signal Word:	None	Potential I	Health Effects:	Carcinogenic effects:	None.	Health:	0
Health hazards:	Not classified	eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.	Flammability:	0
Physical hazards:	Not classified	Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.	Reactivity:	0
Hazard Statements:	Not Applicable	Inhalation:	May be harmful by inhalation.	Sensitization:	None.		
Precautionary:	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal		
Statements:					use conditions.		

# SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %	
Glycerol 56-81-5 (10-30)	56-81-5	200-289-5	10-30	

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## **SECTION 4:** First aid measures

Skin contact:	Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
inhalation:	Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

#### Most important symptoms and effects, both acute and delayed: Not Applicable

Notes to Physician: Treat symptomatically.

#### **SECTION 5:** Firefighting measures

Suitable extinguishing media:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Special protective equipment for firefighters:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Specific hazards arising from the chemical:Not known

#### SECTION 6: Accidental release measures

Personal precautions:Use personal protection equipment.Methods for cleaning up:Soak up with inert absorbent material.

#### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. See Section 12 for more information.

## SECTION 7: Handling and storage

Handling:Always wear reccommended Personal Protective Equipment. No special handling advices are necessary.Storage:Keep in a dry, cool and well-ventilated place.

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

#### **Exposure Limits:**

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	None	None	None

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection:	In case of insufficient ventilation, wear suitable	Skin and Body Protection:	Lightweight protective clothing.
	respiratory equipment.	Hygiene measures:	Handle in accordance with good industrial
Hand protection:	Impervious gloves.		hygiene and safety practice.
Eye protection:	Wear safety glasses with side shields (or goggles).		

Environmental exposure controls: No special environmental precautions required.

# SECTION 9: Physical and chemical properties

General informatio	n:			
Form:	Liquid	Boiling point / boiling range:	°C >100	°F >212
Appearance:	No information available	Melting point / melting range:	°C >0	°F >32
Odor:	No data available	flash point:	°C >90	°F >160
Odor Threshold:	No data available	Autoignition Temperature:	°C No data available	°F No data available

Evaporation rate:	No data available	Partition coefficient:	No data available
Flammability (solid, gas):	No data available	n-octanol/water:	
Oxidizing properties:	No information available	Vapor Pressure:	No data available
Water solubility soluble:	soluble	vapor density:	No data available
Upper explosion limit:	No data available	Viscosity:	No data available
Lower explosion limit:	No data available	pH value:	6-8

Stability:	Stable under normal conditions.	Hazardous decomposition:	Carbon oxides.
Materials to avoid:	Strong acids and oxidizing agents.	products:	
	Acetic anhydride. Isocyanates. Ammonia. Bases.	polymerization:	Hazardous polymerization does not occur.
Possibility of hazardous reactions:	Hazardous reaction has not been reported	Conditions to avoid:	None under normal processing.

## SECTION 11: Toxicological information

#### Acute Toxicity:

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)		
Glycerol	= 12600 mg/kg Oral	No data available	>570mg/m <sup>3</sup> (Rat)		
Principle Routes of Exposure Potential Health Effects:					
eyes:	May cause eye irritation with suscer	otible persons. Mutagenic effects:	None.		

Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.
Inhalation:	May be harmful by inhalation.	Sensitization:	None.
Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal use conditions
Carcinogenic effects:	None.		

## SECTION 12: Ecological information

Ecotoxicity: Acute aquatic toxicity:				Not classified chro Log Pow. Inherently biodegr Material does not	radable.
Chemical Name	Freshwater Algae Data	Water Flea Data F	Freshwater Fish Species Data	Microtox Data	log Pow

Glycerol Daphnia magna EC50>500 mg/L (24h)	logPow-1.76
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## SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## **SECTION 14:** Transport information

#### IATA

Proper Shipping Name:	No danger	ous good in sense of these tr	ansport regulations	Packing group:	None
Hazard Class:	None			UN-No:	None
Subsidiary class:	None			Environmental hazards:	None

#### SECTION 15: Regulatory information

Glycerol 56-81-5 (10-30)	ons:	US Federal Regulations:	US TSCA	Component
This product is not regulated		SARA 313 This product is not regulated by SARA	Listed	Glycerol 56-81-5 (10-30)

#### US State Regulations:

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

#### WHMIS Hazard Class:

#### Non-controlled

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

**Clean Air Act, Section 112 Hazardous** 

Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

## SECTION 16: Other information

#### **Reason for revision:**

SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"



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

Identification of the substance or mixture:

Product name: TBEV Negative Control

Kit Name: Tick-borne encephalitis virus

Company/undertaking identification: Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1213. Concepción, Chile.

Phone: (56)-41-2790435

## SECTION 2: Hazards identification

GHS - Classification		Principle F	Routes of Exposure	Specific effects:		HMIS:	
Signal Word:	None	Potential I	Health Effects:	Carcinogenic effects:	None.	Health:	0
Health hazards:	Not classified	eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.	Flammability:	0
Physical hazards:	Not classified	Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.	Reactivity:	0
Hazard Statements:	Not Applicable	Inhalation:	May be harmful by inhalation.	Sensitization:	None.		
Precautionary:	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal		
Statements:					use conditions.		

# SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Glycerol 56-81-5 (10-30)	56-81-5	200-289-5	10-30

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## **SECTION 4:** First aid measures

Skin contact:	Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
inhalation:	Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Most important symptoms and effects, both acute and delayed: Not Applicable

Notes to Physician: Treat symptomatically.

#### **SECTION 5:** Firefighting measures

Suitable extinguishing media:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Special protective equipment for firefighters:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Specific hazards arising from the chemical:Not known

#### SECTION 6: Accidental release measures

Personal precautions:Use personal protection equipment.Methods for cleaning up:Soak up with inert absorbent material.

#### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. See Section 12 for more information.

## SECTION 7: Handling and storage

Handling:Always wear reccommended Personal Protective Equipment. No special handling advices are necessary.Storage:Keep in a dry, cool and well-ventilated place.

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

#### **Exposure Limits**:

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup>	None	None	None
	5 mg/m <sup>3</sup>			

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection:	In case of insufficient ventilation, wear suitable	Skin and Body Protection:	Lightweight protective clothing.
	respiratory equipment.	Hygiene measures:	Handle in accordance with good industrial
Hand protection:	Impervious gloves.		hygiene and safety practice.
Eye protection:	Wear safety glasses with side shields (or goggles).		

Environmental exposure controls: No special environmental precautions required.

# SECTION 9: Physical and chemical properties

General informatio	n:			
Form:	Liquid	Boiling point / boiling range:	°C >100	°F >212
Appearance:	No information available	Melting point / melting range:	°C >0	°F >32
Odor:	No data available	flash point:	°C >90	°F >160
Odor Threshold:	No data available	Autoignition Temperature:	°C No data available	°F No data available

Evaporation rate:	No data available	Partition coefficient:	No data available
Flammability (solid, gas):	No data available	n-octanol/water:	
Oxidizing properties:	No information available	Vapor Pressure:	No data available
Water solubility soluble:	soluble	vapor density:	No data available
Upper explosion limit:	No data available	Viscosity:	No data available
Lower explosion limit:	No data available	pH value:	6-8

Stability:	Stable under normal conditions.	Hazardous decomposition:	Carbon oxides.
Materials to avoid:	Strong acids and oxidizing agents.	products:	
	Acetic anhydride. Isocyanates. Ammonia. Bases.	polymerization:	Hazardous polymerization does not occur.
Possibility of hazardous reactions:	Hazardous reaction has not been reported	Conditions to avoid:	None under normal processing.

## **SECTION 11:** Toxicological information

#### Acute Toxicity:

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)			
Glycerol	= 12600 mg/kg Oral	No data available	>570mg/m <sup>3</sup> (Rat)			
Principle Routes of Exposure Potential Health Effects:						
eyes:	May cause eye irritation with suscer	otible persons. Mutagenic effects:	None.			

Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.
Inhalation:	May be harmful by inhalation.	Sensitization:	None.
Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal use conditions
Carcinogenic effects:	None.		

## **SECTION 12:** Ecological information

Ecotoxicity: Acute aquatic toxicity:				Not classified chr Log Pow. Inherently biodeg Material does not	radable.
Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow

Glycerol	Daphnia magna EC50>500 mg/L (24h)	logPow-1.76	
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## **SECTION 13:** Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## **SECTION 14:** Transport information

#### **IATA**

Proper Shipping Name:	No danger	ous good in sense of these tr	ansport regulations	Packing group:	None
Hazard Class:	None			UN-No:	None
Subsidiary class:	None			Environmental hazards:	None

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

Glycerol 56-81-5 (10-30) Listed SARA 313	ions:
This product is not regulate	hy SARA

#### **US State Regulations:**

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

#### WHMIS Hazard Class:

#### Non-controlled

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

**Clean Air Act, Section 112 Hazardous** 

Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

## SECTION 16: Other information

#### **Reason for revision:**

SDS sections updated. For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"



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

Identification of the substance or mixture:

Product name: PCR grade Water

Kit Name: Tick-borne encephalitis virus

Company/undertaking identification: Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1213. Concepción, Chile.

Phone: (56)-41-2790435

## SECTION 2: Hazards identification

GHS - Classification		Principle F	Routes of Exposure	Specific effects:		HMIS:	
Signal Word:	None	Potential I	Health Effects:	Carcinogenic effects:	None.	Health:	0
Health hazards:	Not classified	eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.	Flammability:	0
Physical hazards:	Not classified	Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.	Reactivity:	0
Hazard Statements:	Not Applicable	Inhalation:	May be harmful by inhalation.	Sensitization:	None.		
Precautionary:	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal		
Statements:					use conditions.		

# SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Glycerol 56-81-5 (10-30)	56-81-5	200-289-5	10-30

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## SECTION 4: First aid measures

Skin contact:	Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
inhalation:	Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Most important symptoms and effects, both acute and delayed: Not Applicable

Notes to Physician: Treat symptomatically.

#### SECTION 5: Firefighting measures

Suitable extinguishing media:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Special protective equipment for<br/>firefighters: Wear self-contained breathing apparatus and protective suit.Specific hazards arising from the chemical:Not known

#### SECTION 6: Accidental release measures

Personal precautions:Use personal protection equipment.Methods for cleaning up:Soak up with inert absorbent material.

## SECTION 7: Handling and storage

Handling:Always wear reccommended Personal Protective Equipment. No special handling advices are necessary.Storage:Keep in a dry, cool and well-ventilated place.

# SECTION 8: Exposure controls/personal protection

#### Exposure Limite

## Exposure Limits:

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	None	None	None

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection:	In case of insufficient ventilation, wear suitable	Skin and Body Protection:	Lightweight protective clothing.
	respiratory equipment.	Hygiene measures:	Handle in accordance with good industrial
Hand protection:	Impervious gloves.		hygiene and safety practice.
Eye protection:	Wear safety glasses with side shields (or goggles).		

Environmental exposure controls: No special environmental precautions required.

# SECTION 9: Physical and chemical properties

General information	n:			
Form:	Liquid	Boiling point / boiling range:	°C >100	°F >212
Appearance:	No information available	Melting point / melting range:	°C >0	°F >32
Odor:	No data available	flash point:	°C >90	°F >160
Odor Threshold:	No data available	Autoignition Temperature:	°C No data available	°F No data available

#### Visit our web site for more information: www.kitpcr.com / email kitpcr@bioingentech.com - info@bioingentech.com.

Prevent further leakage or spillage if safe to do so.

See Section 12 for more information.

## Environmental precautions:

Evaporation rate:	No data available	Partition coefficient:	No data available
Flammability (solid, gas):	No data available	n-octanol/water:	
Oxidizing properties:	No information available	Vapor Pressure:	No data available
Water solubility soluble:	soluble	vapor density:	No data available
Upper explosion limit:	No data available	Viscosity:	No data available
Lower explosion limit:	No data available	pH value:	6-8

Stability:	Stable under normal conditions.	Hazardous decomposition:	Carbon oxides.
Materials to avoid:	Strong acids and oxidizing agents.	products:	
	Acetic anhydride. Isocyanates. Ammonia. Bases.	polymerization:	Hazardous polymerization does not occur.
Possibility of hazardous reactions:	Hazardous reaction has not been reported	Conditions to avoid:	None under normal processing.

## SECTION 11: Toxicological information

#### Acute Toxicity:

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)			
Glycerol	= 12600 mg/kg Oral	No data available	>570mg/m <sup>3</sup> (Rat)			
Principle Routes of Exposure Potential Health Effects:						

eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.
Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.
Inhalation:	May be harmful by inhalation.	Sensitization:	None.
Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal use conditions
Carcinogenic effects:	None.		

## SECTION 12: Ecological information

Ecotoxicity: Acute aquatic toxicity:		•		Not classified chr Log Pow. Inherently biodeg Material does not	radable.
Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow

Glycerol	Daphnia magna EC50>500 mg/L (24h)			logPow-1.76
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## SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## SECTION 14: Transport information

#### IATA

Proper Shipping Name:	No danger	ous good in sense of these transport regulations	Packing group:	None	
Hazard Class:	None		UN-No:	None	
Subsidiary class:	None		Environmental hazards:	None	

## SECTION 15: Regulatory information

Component	US TSCA	US Federal Regulations:
Glycerol 56-81-5 (10-30)	Listed	SARA 313 This product is not regulated by SARA.

#### **US State Regulations:**

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

#### WHMIS Hazard Class:

#### Non-controlled

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

**Clean Air Act, Section 112 Hazardous** 

Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

## SECTION 16: Other information

#### **Reason for revision:**

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

SDS sections updated.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"



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

Identification of the substance or mixture:

Product name: Exogenous RNA control

Kit Name: Tick-borne encephalitis virus

Company/undertaking identification: Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1213. Concepción, Chile.

Phone: (56)-41-2790435

## SECTION 2: Hazards identification

GHS - Classification		Principle F	Routes of Exposure	Specific effects:		HMIS:	
Signal Word:	None	Potential I	Health Effects:	Carcinogenic effects:	None.	Health:	0
Health hazards:	Not classified	eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.	Flammability:	0
Physical hazards:	Not classified	Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.	Reactivity:	0
Hazard Statements:	Not Applicable	Inhalation:	May be harmful by inhalation.	Sensitization:	None.		
Precautionary:	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal		
Statements:					use conditions.		

# SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Glycerol 56-81-5 (10-30)	56-81-5	200-289-5	10-30

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## SECTION 4: First aid measures

Skin contact:	Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
inhalation:	Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Most important symptoms and effects, both acute and delayed: Not Applicable

Notes to Physician: Treat symptomatically.

#### **SECTION 5:** Firefighting measures

Suitable extinguishing media:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Special protective equipment for firefighters:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Specific hazards arising from the chemical:Not known

#### SECTION 6: Accidental release measures

Personal precautions:Use personal protection equipment.Methods for cleaning up:Soak up with inert absorbent material.

#### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. See Section 12 for more information.

## SECTION 7: Handling and storage

Handling:Always wear reccommended Personal Protective Equipment. No special handling advices are necessary.Storage:Keep in a dry, cool and well-ventilated place.

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

#### **Exposure Limits:**

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	None	None	None
	5 mg/ms			

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection:	In case of insufficient ventilation, wear suitable	Skin and Body Protection:	Lightweight protective clothing.
	respiratory equipment.	Hygiene measures:	Handle in accordance with good industrial
Hand protection:	Impervious gloves.		hygiene and safety practice.
Eye protection:	Wear safety glasses with side shields (or goggles)		
<b>E 1</b>			

Environmental exposure controls: No special environmental precautions required.

# SECTION 9: Physical and chemical properties

Genera	information	า:
Form:		Liquid

Form:	Liquid	Boiling point / boiling range:	°C >100	°F >212
Appearance:	No information available	Melting point / melting range:	°C >0	°F >32
Odor:	No data available	flash point:	°C >90	°F >160
Odor Threshold:	No data available	Autoignition Temperature:	°C No data available	°F No data available

Evaporation rate:	No data available	Partition coefficient:	No data available
Flammability (solid, gas):	No data available	n-octanol/water:	
Oxidizing properties:	No information available	Vapor Pressure:	No data available
Water solubility soluble:	soluble	vapor density:	No data available
Upper explosion limit:	No data available	Viscosity:	No data available
Lower explosion limit:	No data available	pH value:	6-8

Stability:	Stable under normal conditions.	Hazardous decomposition:	Carbon oxides.
Materials to avoid:	Strong acids and oxidizing agents.	products:	
	Acetic anhydride. Isocyanates. Ammonia. Bases.	polymerization:	Hazardous polymerization does not occur.
Possibility of hazardous reactions:	Hazardous reaction has not been reported	Conditions to avoid:	None under normal processing.

## SECTION 11: Toxicological information

#### Acute Toxicity:

Chemical Name LD50 (oral,rat/mouse)		LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)		
Glycerol	= 12600 mg/kg Oral	No data available	>570mg/m <sup>3</sup> (Rat)		
Principle Routes of Exposure Potential Health Effects:					

eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.
Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.
Inhalation:	May be harmful by inhalation.	Sensitization:	None.
Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal use conditions
Carcinogenic effects:	None.		

## SECTION 12: Ecological information

Ecotoxicity: Acute aquatic toxicity:		•		Not classified chr Log Pow. Inherently biodeg Material does not	radable.
Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
-· ·					

Glycerol		Daphnia magna EC50>500 mg/L (24h)		logPow-1.76
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## SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## SECTION 14: Transport information

#### IATA

Proper Shipping Name:	No danger	ous good in sense of these transport regulations	Packing group:	None	
Hazard Class:	None		UN-No:	None	
Subsidiary class:	None		Environmental hazards:	None	

#### SECTION 15: Regulatory information

Component		US TSCA	US Federal Regulations:	
Glycerol 56-81-5(10-30)	)	Listed	SARA 313 This product is not regulated by SARA.	
			This product is not regulated by SANA.	

#### **US State Regulations:**

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

#### WHMIS Hazard Class:

#### Non-controlled

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

**Clean Air Act, Section 112 Hazardous** 

Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

## SECTION 16: Other information

#### **Reason for revision:**

SDS sections updated.

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

#### Identification of the substance or mixture:

Product name: Exogenous RNA control Primer and Probes Mix Kit Name: Tick-borne encephalitis virus

Kit Name: Tick-borne encephalitis virus

Company/undertaking identification: Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1213. Concepción, Chile.

Phone: (56)-41-2790435

## SECTION 2: Hazards identification

GHS - Classification		Principle F	Routes of Exposure	Specific effects:		HMIS:	
Signal Word:	None	Potential I	Health Effects:	Carcinogenic effects:	None.	Health:	0
Health hazards:	Not classified	eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects:	None.	Flammability:	0
Physical hazards:	Not classified	Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.	Reactivity:	0
Hazard Statements:	Not Applicable	Inhalation:	May be harmful by inhalation.	Sensitization:	None.		
Precautionary:	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal		
Statements:					use conditions.		

# SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Glycerol 56-81-5 (10-30)	56-81-5	200-289-5	10-30

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## SECTION 4: First aid measures

Skin contact:	Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
inhalation:	Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

#### Most important symptoms and effects, both acute and delayed: Not Applicable

Notes to Physician: Treat symptomatically.

#### **SECTION 5:** Firefighting measures

Suitable extinguishing media:Water spray. Carbon dioxide (CO2). Foam. Dry chemical.Special protective equipment for firefighters:Wear self-contained breathing apparatus and protective suit.Specific hazards arising from the chemical:Not known

#### SECTION 6: Accidental release measures

Personal precautions:Use personal protection equipment.Methods for cleaning up:Soak up with inert absorbent material.

#### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. See Section 12 for more information.

## SECTION 7: Handling and storage

Handling:Always wear reccommended Personal Protective Equipment. No special handling advices are necessary.Storage:Keep in a dry, cool and well-ventilated place.

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

#### Exposure Limits:

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	None	None	None

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection:	In case of insufficient ventilation, wear suitable	Skin and Body Protection:	Lightweight protective clothing.
	respiratory equipment.	Hygiene measures:	Handle in accordance with good industrial
Hand protection:	Impervious gloves.		hygiene and safety practice.
Eye protection:	Wear safety glasses with side shields (or goggles).		

Environmental exposure controls: No special environmental precautions required.

# SECTION 9: Physical and chemical properties

General	information	า:
Form:		Liquid

Form:	Liquid	Boiling point / boiling range:	°C >100	°F >212
Appearance:	No information available	Melting point / melting range:	°C >0	°F >32
Odor:	No data available	flash point:	°C >90	°F >160
Odor Threshold:	No data available	Autoignition Temperature:	°C No data available	°F No data available

Evaporation rate:	No data available	Partition coefficient:	No data available
Flammability (solid, gas):	No data available	n-octanol/water:	
Oxidizing properties:	No information available	Vapor Pressure:	No data available
Water solubility soluble:	soluble	vapor density:	No data available
Upper explosion limit:	No data available	Viscosity:	No data available
Lower explosion limit:	No data available	pH value:	6-8

Stability:	Stable under normal conditions.	Hazardous decomposition:	Carbon oxides.
Materials to avoid:	Strong acids and oxidizing agents.	products:	
	Acetic anhydride. Isocyanates. Ammonia. Bases.	polymerization:	Hazardous polymerization does not occur.
Possibility of hazardous reactions:	Hazardous reaction has not been reported	Conditions to avoid:	None under normal processing.

## SECTION 11: Toxicological information

#### Acute Toxicity:

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Glycerol	= 12600 mg/kg Oral	No data available	>570mg/m <sup>3</sup> (Rat)
Principle Routes of Ex	xposure Potential Health Effec	ts:	
eyes:	May cause eye irritation with suscep	tible persons. Mutagenic effects:	None.

Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity:	None.
Inhalation:	May be harmful by inhalation.	Sensitization:	None.
Ingestion:	May be harmful if swallowed.	Target Organ Effects:	None under normal use conditions
Carcinogenic effects:	None.		

## SECTION 12: Ecological information

Ecotoxicity: Acute aquatic toxicity:				Not classified chro Log Pow. Inherently biodegi Material does not	radable.
Chemical Name	Freshwater Algae Data	Water Flea Data F	Freshwater Fish Species Data	Microtox Data	log Pow

Glycerol	Daphnia magna EC50>500 mg/L (24h)	logPow-1.76
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## SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## SECTION 14: Transport information

#### IATA

Proper Shipping Name:	No danger	ous good in sense of these transport regulations	Packing group:	None
Hazard Class:	None		UN-No:	None
Subsidiary class:	None		Environmental hazards:	None

#### SECTION 15: Regulatory information

Glycerol 56-81-5 (10-30)	ns:	US Federal Regulations:	US TSCA	Component
	SARA	SARA 313 This product is not regulated by SAR/	Listed	Glycerol 56-81-5 (10-30)

#### **US State Regulations:**

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

#### WHMIS Hazard Class:

#### Non-controlled

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

Clean Air Act, Section 112 Hazardous

Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

## SECTION 16: Other information

#### **Reason for revision:**

SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"