

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: Canine parainfluenza 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	1	Principle F	Routes of Exposure	Specific effects		HMIS	
Signal Word	None	Potential	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	1 0-30

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 precautionsUse personal protection equipment.Methods for cleaning upSoak up with inert absorbent material.

### SECTION 7: Handling and storage

HandlingAlways wear reccommended Personal Protective Equipment. No special handling advices are necessary.StorageKeep 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

<u> </u>	· ·	
General	intor	mation

General information				
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: info@kitpcr.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 suscep		None.	
Skin	May cause skin irritation in susceptit	ble persons. Reproductive toxici	ty 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 l	adable.
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: Primer, Probes and Internal Control Mix

Kit Name: Canine parainfluenza 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	1	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 Storage Always wear reccommended Personal Protective Equipment. No special handling advices are necessary. 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

FormLiquidBoiling point / boiling range°C >100°F >212	
AppearanceNo information availableMelting 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.				

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

### SECTION 12: Ecological information

Chemical Name	Freshwater Algae Data	Water Flea Data Fi	reshwater Fish Species Data	Microtox Data	log Pow
Acute aquatic toxicity	water treatment	to the environment or not degradable in waste water treatment plants. Not classified for acute.		Log Pow. Inherently biodegra Material does not b	
Ecotoxicity		stances known to be hazardo		Not classified chro	nic.

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.

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: One qRTPCR Enzyme Mix

Kit Name: Canine parainfluenza 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	I	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	1 0-30

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.
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### 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.

### **SECTION 7:** Handling and storage

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

Environmental precautions

See Section 12 for more information.

Prevent further leakage or spillage if safe to do so.

### 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	1			
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.				

	yc3	May cause eye initation with susceptible persons.	mulayerine errecto	NULLE.
ŝ	Skin	May cause skin irritation in susceptible persons.	Reproductive toxicity	None.
l	nhalation	May be harmful by inhalation.	Sensitization	None.
	ngestion	May be harmful if swallowed.	Target Organ Effects	None under normal use conditions
(	Carcinogenic effects	None.		

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

Ecotoxicity		stances known to be hazard nt or not degradable in wast		Not classified chro Log Pow.	
Acute aquatic toxicity	water treatment p Not classified for		Biodegradation Bioaccumulation	Inherently biodegra Material does not b	
Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow

Glycerol Daphnia magna logPow-1.				
EC50>500 mg/L (24h)	Glycerol	Daphnia magna EC50>500 mg/L (24h)		logPow-1.76

### **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 OAIA.

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**

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"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: CPIV Positive Control

Kit Name: Canine parainfluenza 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	1 0-30	

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.

Environmental precautions

See Section 12 for more information.

Prevent further leakage or spillage if safe to do so.

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.

### **SECTION 7:** Handling and storage

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

### **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	1			
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)	D50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)				
Glycerol = 12600 mg/kg Oral		o data available	>570mg/m <sup>3</sup> (Rat)				
Principle Routes of Exposure Potential Health Effects							
eyes	May cause eye irritation with susceptible pers	ons. Mutagenic effects	None.				
Skin	May cause skin irritation in susceptible persor	s. 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

	Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow		
Ecotoxicity Acute aquatic toxicity					Not classified chr Log Pow. Inherently biodeg Material does not	gradable.		
	<b>SECTION 12.</b> Ecological information							

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 dangero	us 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

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Glycerol 56-81-5 (10-30) Lis	sted SARA 31	3 uct 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: CPIV Negative Control

Kit Name: Canine parainfluenza virus

Company/undertaking identification Manufacturer/Supplier: Bioingentech Ltd.

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

Phone: (56)-41-2790435

SECTION 2: Hazards identification

LCHON Z.	i luzui us ic						
HS - Classification	1	Principle F	Routes of Exposure	Specific effects		HMIS	
ignal Word	None	Potential I	Health Effects	Carcinogenic effects	None.	Health	0
ealth hazards	Not classified	eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects	None.	Flammability	0
hysical hazards	Not classified	Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity	None.	Reactivity	0
azard Statements	Not Applicable	Inhalation:	May be harmful by inhalation.	Sensitization	None.		
recautionary	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects	None under normal		
tatements					use conditions.		
	HS - Classification ignal Word ealth hazards hysical hazards azard Statements recautionary	HS - Classification ignal Word None ealth hazards Not classified hysical hazards Not classified azard Statements Not Applicable recautionary Not Applicable	HS - Classification     Principle F       ignal Word     None     Potential       ealth hazards     Not classified     eyes:       hysical hazards     Not classified     Skin:       azard Statements     Not Applicable     Inhalation:       recautionary     Not Applicable     Ingestion:	HS - Classification ignal Word       Principle Routes of Exposure Potential Health Effects         ealth hazards       Not classified       eyes:         hysical hazards       Not classified       eyes:         Not classified       Skin:       May cause eye irritation with susceptible persons.         szard Statements       Not Applicable       Inhalation:         Not Applicable       Not Applicable       Ingestion:         May be harmful by inhalation.       Ingestion:       May be harmful if swallowed.	ignal Word ealth hazardsNonePotential Health EffectsCarcinogenic effectshysical hazards azard StatementsNot classified Not ApplicableNay cause eye irritation with susceptible persons.Mutagenic effectsnot classified recautionaryNot ApplicableSkin:May cause skin irritation in susceptible persons.Mutagenic effectsnot classified recautionaryNot ApplicableInhalation:May be harmful by inhalation.Sensitizationnot ApplicableIngestion:May be harmful if swallowed.Target Organ Effects	HS - Classification ignal Word       Principle Routes of Exposure Potential Health Effects       Specific effects       None.         ealth hazards       Not classified       eyes:       May cause eye irritation with susceptible persons.       Mutagenic effects       None.         hysical hazards       Not classified       Skin:       May cause skin irritation in susceptible persons.       Mutagenic effects       None.         azard Statements       Not Applicable       Inhalation:       May be harmful by inhalation.       Sensitization       None.         recautionary       Not Applicable       Ingestion:       May be harmful if swallowed.       Target Organ Effects       None under normal	HS - Classification ignal Word       Principle Routes of Exposure       Specific effects       None       HMIS         ealth hazards       Not classified       Potential Health Effects       Carcinogenic effects       None.       Health         hysical hazards       Not classified       eyes:       May cause eye irritation with susceptible persons.       Mutagenic effects       None.       Flammability         kysical hazards       Not classified       Skin:       May cause skin irritation in susceptible persons.       Reproductive toxicity       None.       Reactivity         azard Statements       Not Applicable       Inhalation:       May be harmful by inhalation.       Sensitization       None.       None.         recautionary       Not Applicable       Nay be harmful if swallowed.       Target Organ Effects       None under normal

### 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 precautionsUse personal protection equipment.Methods for cleaning upSoak 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 Storage Always wear reccommended Personal Protective Equipment. No special handling advices are necessary. Keep in a dry, cool and well-ventilated place.

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

### **Exposure Limits**

		· • • /	ACGIH OEL (TWA)	ACGIH OEL (STEL)
,	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	1			
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				
AVAS	May cause eve irritation with susce	ntible persons Mutagenic effects	None	

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	adable.
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**

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: PCR grade Water

Kit Name: Canine parainfluenza virus

Company/undertaking identification Manufacturer/Supplier: Bioingentech Ltd.

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

Phone: (56)-41-2790435

SECTION 2: Hazards identification

sification		Principle F	Routes of Exposure	Specific effects		HMIS	
d	None	Potential I	Health Effects	Carcinogenic effects	None.	Health	0
irds	Not classified	eyes:	May cause eye irritation with susceptible persons.	Mutagenic effects	None.	Flammability	0
zards	Not classified	Skin:	May cause skin irritation in susceptible persons.	Reproductive toxicity	None.	Reactivity	0
ements	Not Applicable	Inhalation:	May be harmful by inhalation.	Sensitization	None.		
ary	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects	None under normal		
					use conditions.		
	l rds zards ements iry	INonerdsNot classifiedzardsNot classifiedementsNot ApplicablerryNot Applicable	I         None         Potential I           rds         Not classified         eyes:           zards         Not classified         Skin:           ements         Not Applicable         Inhalation:           rry         Not Applicable         Ingestion:	INonePotential Health EffectsrdsNot classifiedMay cause eye irritation with susceptible persons.zardsNot classifiedSkin:May cause skin irritation in susceptible persons.ementsNot ApplicableInhalation:May be harmful by inhalation.InyNot ApplicableIngestion:May be harmful if swallowed.	INonePotential Health EffectsCarcinogenic effectsrdsNot classifiedeyes:May cause eye irritation with susceptible persons.Mutagenic effectsrardsNot classifiedSkin:May cause skin irritation in susceptible persons.Mutagenic effectsrementsNot ApplicableInhalation:May be harmful by inhalation.SensitizationrryNot ApplicableIngestion:May be harmful if swallowed.Target Organ Effects	Image: None         Potential Health Effects         Carcinogenic effects         None.           rds         Not classified         eyes:         May cause eye irritation with susceptible persons.         Mutagenic effects         None.           rds         Not classified         Skin:         May cause eye irritation in susceptible persons.         Mutagenic effects         None.           rds         Not classified         Skin:         May cause skin irritation in susceptible persons.         Reproductive toxicity         None.           ements         Not Applicable         Inhalation:         May be harmful by inhalation.         Sensitization         None.           ry         Not Applicable         Ingestion:         May be harmful if swallowed.         Target Organ Effects         None under normal	Initiation       Potential Health Effects       Carcinogenic effects       None.       Health         Id       None       Potential Health Effects       May cause eye irritation with susceptible persons.       Mutagenic effects       None.       Flammability         rds       Not classified       Skin:       May cause eye irritation in susceptible persons.       Mutagenic effects       None.       Flammability         genents       Not Applicable       Inhalation:       May be harmful by inhalation.       Sensitization       None.       Reactivity         my       Not Applicable       Ingestion:       May be harmful if swallowed.       Target Organ Effects       None under normal

### 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 precautionsUse personal protection equipment.Methods for cleaning upSoak 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 Storage Always wear reccommended Personal Protective Equipment. No special handling advices are necessary. 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).		
<b>- - - - - - - - - -</b>			

Environmental exposure controls No special environmental precautions required.

## SECTION 9: Physical and chemical properties

General information				
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 E	xposure Potential Health Effec	ts	
eyes	May cause eye irritation with suscep	otible persons. Mutagenic effects	None.
Skin	May cause skin irritation in suscepti	ble persons. Reproductive toxicity	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		1		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

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 SAR

### **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.

by SARA.

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: Canine parainfluenza 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	1	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.

### SECTION 7: Handling and storage

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

**Environmental precautions** 

See Section 12 for more information.

Prevent further leakage or spillage if safe to do so.

### 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	1			
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 suscep	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

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Acute aquatic toxicity	to the environment or not degradable in waste water treatment plants. Not classified for acute.		te Mobility Biodegradation Bioaccumulation	Log Pow. Inherently biodegra Material does not b	
Ecotoxicity	Contains no sub	stances known to be hazard	lous Chronic aquatic toxicity	Not classified chro	nic.

Glycerol	Daphnia magna EC50>500 mg/L (24h)	logPow-1.76
	EC50>500 mg/L (24h)	

### **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

SARA 313	lations	
Glycerol 56-81-5 (10-30) Listed This product is not regul	ated 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: Exogenous RNA control Primer and Probes Mix Kit Name: Canine parainfluenza 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	l	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 precautionsUse personal protection equipment.Methods for cleaning upSoak 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 Storage Always wear reccommended Personal Protective Equipment. No special handling advices are necessary. 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).		
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Environmental exposure controls No special environmental precautions required.

### SECTION 9: Physical and chemical properties

General information				
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 suscentible n	arcone <b>Penroductive toxicity</b>	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		Contains no substances known to be hazardou to the environment or not degradable in waste water treatment plants. Not classified for acute.		· · ·	Not classified chro Log Pow. Inherently biodegr Material does not	radable.	
	Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow	

Glycerol	Daphnia magna		logPow-1.76
	EC50>500 mg/L (24h)		

### 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 SARA 313 This product is not regulated by SARA	
Glycerol 56-81-5 (10-30)	Listed		

### **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"