

Material Safety Data Sheet - DNA

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 Universal Mix

Kit Name: Neosartorya fischer

Company/undertaking identification

Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1186, Of 1307. Concepción, Chile.

Phone: (56)-41-2790435

SECTION 2: Hazards identification

GHS - Classification		Principle 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 Statements	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects	None under normal 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 recommended 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 ³ 5 mg/m ³	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 respiratory equipment.	Skin and Body Protection	Lightweight protective clothing.
Hand protection	Impervious gloves.	Hygiene measures	Handle in accordance with good industrial 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

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
Flammability (solid, gas)	No data available
Oxidizing properties	No information available
Water solubility	soluble
Upper explosion limit	No data available
Lower explosion limit	No data available

Partition coefficient n-octanol/water	No data available
Vapor Pressure	No data available
vapor density	No data available
Viscosity	No data available
pH value	6-8

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.	Hazardous decomposition products	Carbon oxides.
Materials to avoid	Strong acids and oxidizing agents. 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 ³ (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	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.	Chronic aquatic toxicity	Not classified chronic.
Acute aquatic toxicity	Not classified for acute.	Mobility	Log Pow.
		Biodegradation	Inherently biodegradable.
		Bioaccumulation	Material does not bioaccumulate.

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

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name	No dangerous 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
Glycerol 56-81-5 (10-30)	Listed

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

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.

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"

Material Safety Data Sheet - DNA

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: Neosartorya fischer

Company/undertaking identification

Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1186, Of 1307. Concepción, Chile.

Phone: (56)-41-2790435

SECTION 2: Hazards identification

GHS - Classification

Signal Word None

Health hazards Not classified

Physical hazards Not classified

Hazard Statements Not Applicable

Precautionary Statements Not Applicable

Principle Routes of Exposure

Potential Health Effects

eyes: May cause eye irritation with susceptible persons.

Skin: May cause skin irritation in susceptible persons.

Inhalation: May be harmful by inhalation.

Ingestion: May be harmful if swallowed.

Specific effects

Carcinogenic effects None.

Mutagenic effects None.

Reproductive toxicity None.

Sensitization None.

Target Organ Effects None under normal use conditions.

HMIS

Health 0

Flammability 0

Reactivity 0

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 recommended 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 ³ 5 mg/m ³	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 respiratory equipment.

Skin and Body Protection

Lightweight protective clothing.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Hand protection Impervious gloves.

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

Form Liquid

Appearance No information available

Odor No data available

Odor Threshold No data available

Boiling point / boiling range °C >100 °F >212

Melting point / melting range °C >0 °F >32

flash point °C >90 °F >160

Autoignition Temperature °C No data available °F No data available

Evaporation rate	No data available
Flammability (solid, gas)	No data available
Oxidizing properties	No information available
Water solubility	soluble
Upper explosion limit	No data available
Lower explosion limit	No data available

Partition coefficient n-octanol/water	No data available
Vapor Pressure	No data available
vapor density	No data available
Viscosity	No data available
pH value	6-8

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.	Hazardous decomposition products	Carbon oxides.
Materials to avoid	Strong acids and oxidizing agents. 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 ³ (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	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.	Chronic aquatic toxicity	Not classified chronic.
Acute aquatic toxicity	Not classified for acute.	Mobility	Log Pow.
		Biodegradation	Inherently biodegradable.
		Bioaccumulation	Material does not bioaccumulate.

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

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name	No dangerous 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
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.

SECTION 16: Other information

Reason for revision SDS sections updated.

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US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

Material Safety Data Sheet - DNA

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

Identification of the substance or mixture

Product name: Neosartorya fischer Positive Control

Kit Name: Neosartorya fischer

Company/undertaking identification

Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1186, Of 1307. Concepción, Chile.

Phone: (56)-41-2790435

SECTION 2: Hazards identification

GHS - Classification

Signal Word None
Health hazards Not classified
Physical hazards Not classified
Hazard Statements Not Applicable
Precautionary Statements Not Applicable

Principle Routes of Exposure

Potential Health Effects

eyes: May cause eye irritation with susceptible persons.
Skin: May cause skin irritation in susceptible persons.
Inhalation: May be harmful by inhalation.
Ingestion: May be harmful if swallowed.

Specific effects

Carcinogenic effects None.
Mutagenic effects None.
Reproductive toxicity None.
Sensitization None.
Target Organ Effects None under normal use conditions.

HMIS

Health 0
Flammability 0
Reactivity 0

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 recommended 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 ³ 5 mg/m ³	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 respiratory equipment.
Hand protection Impervious gloves.
Eye protection Wear safety glasses with side shields (or goggles).
Skin and Body Protection Lightweight protective clothing.
Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No special environmental precautions required.

SECTION 9: Physical and chemical properties

General information

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

Evaporation rate	No data available
Flammability (solid, gas)	No data available
Oxidizing properties	No information available
Water solubility	soluble
Upper explosion limit	No data available
Lower explosion limit	No data available

Partition coefficient n-octanol/water	No data available
Vapor Pressure	No data available
vapor density	No data available
Viscosity	No data available
pH value	6-8

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.	Hazardous decomposition products	Carbon oxides.
Materials to avoid	Strong acids and oxidizing agents. 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 ³ (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	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.	Chronic aquatic toxicity	Not classified chronic.
Acute aquatic toxicity	Not classified for acute.	Mobility	Log Pow.
		Biodegradation	Inherently biodegradable.
		Bioaccumulation	Material does not bioaccumulate.

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

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name	No dangerous 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
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.

SECTION 16: Other information

Reason for revision SDS sections updated.

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US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

Material Safety Data Sheet - DNA

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

Identification of the substance or mixture

Product name: Neosartorya fischer Negative Control

Kit Name: Neosartorya fischer

Company/undertaking identification

Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1186, Of 1307. Concepción, Chile.

Phone: (56)-41-2790435

SECTION 2: Hazards identification

GHS - Classification	Principle 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 Statements Not Applicable	Ingestion: May be harmful if swallowed.	Target Organ Effects None under normal 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 recommended 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 ³ 5 mg/m ³	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 respiratory equipment.	Skin and Body Protection	Lightweight protective clothing.
Hand protection	Impervious gloves.	Hygiene measures	Handle in accordance with good industrial 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

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

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.	Hazardous decomposition products	Carbon oxides.
Materials to avoid	Strong acids and oxidizing agents. 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 ³ (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	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.	Chronic aquatic toxicity	Not classified chronic.
Acute aquatic toxicity	Not classified for acute.	Mobility	Log Pow.
		Biodegradation	Inherently biodegradable.
		Bioaccumulation	Material does not bioaccumulate.

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

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name	No dangerous 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
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.

SECTION 16: Other information

Reason for revision SDS sections updated.

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US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

Material Safety Data Sheet - DNA

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: Neosartorya fischer

Company/undertaking identification

Manufacturer/Supplier: Bioingentech Ltd.

Address: Bernardo O'Higgins 1186, Of 1307. Concepción, Chile.

Phone: (56)-41-2790435

SECTION 2: Hazards identification

GHS - Classification		Principle 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 Statements	Not Applicable	Ingestion:	May be harmful if swallowed.	Target Organ Effects	None under normal 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 recommended 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 ³ 5 mg/m ³	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 respiratory equipment.	Skin and Body Protection	Lightweight protective clothing.
Hand protection	Impervious gloves.	Hygiene measures	Handle in accordance with good industrial 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

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

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.	Hazardous decomposition products	Carbon oxides.
Materials to avoid	Strong acids and oxidizing agents. 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 ³ (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	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.	Chronic aquatic toxicity	Not classified chronic.
Acute aquatic toxicity	Not classified for acute.	Mobility	Log Pow.
		Biodegradation	Inherently biodegradable.
		Bioaccumulation	Material does not bioaccumulate.

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

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name	No dangerous 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
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.

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 WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

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SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.