

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: Haemophilus influenzae 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 | 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 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

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

Odor Threshold

| 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 | 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 informat | tion | |
|------------------|--------------------------|------|
| Form | Liquid | Boi |
| Appearance | No information available | Me |
| Odor | No data available | flas |

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 | 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

Ingestion

| Chemical Name | LD50 (oral,rat/mouse) | LD50 | (dermal,rat/rabbit) | LC50 (inhalation,rat/mouse) |
|---|---------------------------------------|--------------|-----------------------|-----------------------------|
| Glycerol | = 12600 mg/kg Oral | No dat | a available | >570mg/m ³ (Rat) |
| Principle Routes of Exposure Potential Health Effects | | | | |
| eyes | May cause eye irritation with suscer | | Mutagenic effects | None. |
| Skin | May cause skin irritation in suscepti | ble persons. | Reproductive toxicity | None. |
| Inhalation | May be harmful by inhalation. | | Sensitization | None. |

Target Organ Effects

Clean Air Act, Section 112 Hazardous

Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

None under normal use conditions

| Carcinogenic effects | None. |
|----------------------|-------------------------|
| | le eiter linfermentiere |

May be harmful if swallowed.

SECTION 12: Ecological information Ecotoxicity Contains no substances known to be hazardous Chronic aquatic toxicity Not classified chronic. to the environment or not degradable in waste Mobility Log Pow. water treatment plants. Biodegradation Inherently biodegradable. Bioaccumulation Acute aquatic toxicity Not classified for acute. Material does not bioaccumulate. Chemical Name ater Fish Species Data ator Algan Data Water Elea Dat licrotox Data

| Chemical Name | i lesilwaler Aigae Dala | Water Tiea Data | r resilwater r isir opecies Data | WICIOLOX Data | log Fow | |
|---------------|-------------------------|--------------------------------------|----------------------------------|---------------|-------------|--|
| 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 SAIVA. |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

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

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: Universal qPCR Master Mix

Kit Name: Haemophilus influenzae

Company/undertaking identification Manufacturer/Supplier: Bioingentech Ltd.

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

Phone: (56)-41-2790435

SECTION 2: Hazards identification

| GHS - Classification | n | 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. |
| | |

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 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 | 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 | | | | |
|---------------------|--------------------------|-------------------------------|----------------------|----------------------|
| 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/m³ (Rat) | |
| Principle Routes of Exposure Potential Health Effects | | | | |
| eyes May cause eye irritation with susceptible persons. Mutagenic effects None. | | | | |

| 6 | yes | may cause eye initation with susceptible persons. | mulayerine errects | NUIIC. |
|----|----------------------|---|-----------------------|----------------------------------|
| S | ikin | May cause skin irritation in susceptible persons. | Reproductive toxicity | None. |
| lı | nhalation | May be harmful by inhalation. | Sensitization | None. |
| h | ngestion | May be harmful if swallowed. | Target Organ Effects | None under normal use conditions |
| C | Carcinogenic effects | None. | | |
| | | | | |

SECTION 12: Ecological information

| Ecotoxicity Acute aquatic toxicity | | | | Not classified chro Log Pow. Inherently biodegra Material does not b | 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 |
|----------|--------------------------------------|--|-------------|
| | EC30>300 Mg/E (24N) | | |

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 origin. |

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: H. influenzae Positive Control Kit Name: Haemophilus influenzae

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 | 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

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 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 | 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 ³ (Rat) | | | | | |
| Principle Routes of Exposure Potential Health Effects | | | | | | | | |
| eves May cause eve irritation with susceptible persons. Mutagenic effects None. | | | | | | | | |

| eyes | way cause eye initation with susceptible persons. | mutagenic enects | NOTE. |
|----------------------|---|-----------------------|----------------------------------|
| 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 | | stances known to be hazard nt or not degradable in was | | Not classified chro Log Pow. | nic. |
|------------------------|---|---|-----------------------------------|--|---------|
| 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-1.76 | | • | • | |
|------------------------------------|----------|------------------------------------|----|-------------|
| EC50>500 mg/L (24h) | Glycerol | Daphnia magna EC50>500 mg/L (24 | h) | 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. |
| | | |

SDS sections updated.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

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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: H. influenzae Negative Control Kit Name: Haemophilus influenzae

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

SECTION 4: First aid measures

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| 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. |

Environmental precautions

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

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) |
|---------------|---|--------------------|-----------------|------------------|
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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 | |
|---------|-------------|--|
| - | | |

| 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

Carcinogenic effects

| Chemical Name | LD50 (oral,rat/mouse) | LD50 | (dermal,rat/rabbit) | LC50 (inhalation,rat/mouse) |
|------------------------|--|----------------|-----------------------|----------------------------------|
| Glycerol | = 12600 mg/kg Oral | No dat | a available | >570mg/m ³ (Rat) |
| Principle Routes of Ex | xposure Potential Health Effect | S | | |
| eyes | May cause eye irritation with suscept | tible persons. | Mutagenic effects | None. |
| Skin | May cause skin irritation in susceptib | le 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 |

SECTION 12: Ecological information

None.

| | Ecotoxicity Acute aquatic toxicity |
|--|---------------------------------------|
| Chemical Name Freshwater Algae Data Water Flea Data Freshwater Fish Species Data Microtox Data log Pow | Chemical Name |

| 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

| Glycerol 56-81-5 (10-30) | Component | US TSCA | US Federal Regulations |
|------------------------------------|--------------------------|---------|--|
| This product is not regulated by S | 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: PCR grade Water

Kit Name: Haemophilus influenzae

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 | 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 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 | 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 ³ (Rat) | | |
| Principle Routes of Exposure Potential Health Effects | | | | | |
| AVAS | May cause eve irritation with suscer | ntible persons Mutagenic effects | None | | |

| eyes | May cause eye initation 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 | | Contains no substances known to be hazard to the environment or not degradable in was water treatment plants. Not classified for acute. | | | 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 |
|----------|--------------------------------------|--|-------------|
| | 2000, 000 mg/2 (2 m) | | |

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

| Proper Shipping Name | No danger | ous good in sense of these transport regulation | ns 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"