

1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): CleanTag™ 3' Adapter
CleanTag™ 3' Adapter
Product Number: O-30301
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

3. COMPOSITION

3.1 Substances

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact: Immediately wash skin with soap and water.
Inhalation: Remove to fresh air.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.
Respiratory Protection: Use in well ventilated areas.
General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms No information available.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available
Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available

Ozone Depletion Potential: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information:	Keep out of drains, sewers, ditches and waterways.
Disposal Method:	Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.
Contaminated Packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot:	Not dangerous goods.
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15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CERCLA:	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65:	This product does not contain any Proposition 65 chemicals.
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16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard:	0
Flammability:	0
Physical Hazard:	0
Chronic Health Hazard:	0

16.2 NFPA Rating

Health Hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

16.3 Preparation Information

Prepared By:	TriLink BioTechnologies, Inc. 858-546-0004
Issue Date:	2016-05-05
Version:	3

16.4 Further Information

Copyright 2016 TriLink BioTechnologies, inc. License granted to make unlimited paper copies for internal use only. The above information is believed to be accurate, but not necessarily all inclusive, and thus should only be used as a guide in the handling and use of this material. The

data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. TriLink BioTechnologies, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product.

1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): CleanTag™ 5' Adapter
CleanTag™ 5' Adapter
Product Number: O-30302
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

3. COMPOSITION

3.1 Substances

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact: Immediately wash skin with soap and water.
Inhalation: Remove to fresh air.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.
Respiratory Protection: Use in well ventilated areas.
General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms No information available.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available
Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available

Ozone Depletion Potential: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information:	Keep out of drains, sewers, ditches and waterways.
Disposal Method:	Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.
Contaminated Packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot:	Not dangerous goods.
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15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CERCLA:	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65:	This product does not contain any Proposition 65 chemicals.
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16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard:	0
Flammability:	0
Physical Hazard:	0
Chronic Health Hazard:	0

16.2 NFPA Rating

Health Hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

16.3 Preparation Information

Prepared By:	TriLink BioTechnologies, Inc. 858-546-0004
Issue Date:	2016-05-05
Version:	3

16.4 Further Information

Copyright 2016 TriLink BioTechnologies, inc. License granted to make unlimited paper copies for internal use only. The above information is believed to be accurate, but not necessarily all inclusive, and thus should only be used as a guide in the handling and use of this material. The

data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. TriLink BioTechnologies, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product.

1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): Enzyme 1
Enzyme 1
Product Number: L-1002
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

2.4 Other

50.15913% of the mixture consists of ingredient(s) of unknown toxicity. **Note: No data available**

NOTE: Please note that this is a total percentage of the mixture and not tied to the individual ingredient(s). Where an ingredient with unknown acute toxicity is used in a mixture at a concentration >1% and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required.

3. COMPOSITION

3.1 Substances

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact: Immediately wash skin with soap and water.

Inhalation: Remove to fresh air.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol 56-81-5	-	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	-

Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.

Respiratory Protection: Use in well ventilated areas.

General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms	No information available.
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11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available
Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

11.4 Numerical measures of toxicity - Product information

Unknown acute toxicity: 50.15913% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available

Ozone Depletion Potential: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information: Keep out of drains, sewers, ditches and waterways.

Disposal Method: Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot: Not dangerous goods.

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard:	0
Flammability:	0
Physical Hazard:	0
Chronic Health Hazard:	0

16.2 NFPA Rating

Health Hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

16.3 Preparation Information

Prepared By:	TriLink BioTechnologies, Inc. 858-546-0004
Issue Date:	2016-05-05
Version:	3

16.4 Further Information

Copyright 2016 TriLink BioTechnologies, inc. License granted to make unlimited paper copies for internal use only. The above information is believed to be accurate, but not necessarily all inclusive, and thus should only be used as a guide in the handling and use of this material. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. TriLink BioTechnologies, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product.

1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): Enzyme 2
Enzyme 2
Product Number: L-1003
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

2.4 Other

52.801% of the mixture consists of ingredient(s) of unknown toxicity

NOTE: Please note that this is a total percentage of the mixture and not tied to the individual ingredient(s). Where an ingredient with unknown acute toxicity is used in a mixture at a concentration >1% and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required.

3. COMPOSITION

3.1 Substances

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact:	Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact:	Immediately wash skin with soap and water.
Inhalation:	Remove to fresh air.
Ingestion:	If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol 56-81-5	-	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	-

Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.

Respiratory Protection: Use in well ventilated areas.

General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms	No information available.
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11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available
Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

11.4 Numerical measures of toxicity - Product information

Unknown acute toxicity: 50.15913% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available

0.2% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Glycerol 56-81-5	-	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	-	500: 24 h Daphnia magna mg/L EC50
Potassium Chloride 7447-40-7	2500: 72 h Desmodesmus subspicatus mg/L EC50	1060: 96 h Lepomis macrochirus mg/L LC50 static 750 - 1020: 96 h Pimephales promelas mg/L LC50 static	-	825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static
EDTA 60-00-4	1.01: 72 h Desmodesmus subspicatus mg/L EC50	34 - 62: 96 h Lepomis macrochirus mg/L LC50 static 44.2 - 76.5: 96 h Pimephales promelas mg/L LC50 static	-	113: 48 h Daphnia magna mg/L EC50 Static

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available

Ozone Depletion Potential: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information: Keep out of drains, sewers, ditches and waterways.

Disposal Method: Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot: Not dangerous goods.

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard:	0
Flammability:	0
Physical Hazard:	0
Chronic Health Hazard:	0

16.2 NFPA Rating

Health Hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

16.3 Preparation Information

Prepared By:	TriLink BioTechnologies, Inc. 858-546-0004
Issue Date:	2016-05-05
Version:	3

16.4 Further Information

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): Buffer 1
Buffer 1
Product Number: L-1202
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

3. COMPOSITION

3.1 Substances

No ingredients at their given concentrations are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact: Immediately wash skin with soap and water.
Inhalation: Remove to fresh air.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.
Respiratory Protection: Use in well ventilated areas.
General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms No information available.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available
Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available

Ozone Depletion Potential: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information:	Keep out of drains, sewers, ditches and waterways.
Disposal Method:	Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.
Contaminated Packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot:	Not dangerous goods.
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15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CERCLA:	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65:	This product does not contain any Proposition 65 chemicals.
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16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard:	0
Flammability:	0
Physical Hazard:	0
Chronic Health Hazard:	0

16.2 NFPA Rating

Health Hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

16.3 Preparation Information

Prepared By:	TriLink BioTechnologies, Inc. 858-546-0004
Issue Date:	2016-05-05
Version:	3

16.4 Further Information

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data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. TriLink BioTechnologies, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product.

1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): Buffer 2
Buffer 2
Product Number: L-1203
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

3. COMPOSITION

3.1 Substances

No ingredients at their given concentrations are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact: Immediately wash skin with soap and water.
Inhalation: Remove to fresh air.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.
Respiratory Protection: Use in well ventilated areas.
General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms No information available.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available
Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available

Ozone Depletion Potential: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information:	Keep out of drains, sewers, ditches and waterways.
Disposal Method:	Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.
Contaminated Packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot:	Not dangerous goods.
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15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CERCLA:	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65:	This product does not contain any Proposition 65 chemicals.
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16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard:	0
Flammability:	0
Physical Hazard:	0
Chronic Health Hazard:	0

16.2 NFPA Rating

Health Hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

16.3 Preparation Information

Prepared By:	TriLink BioTechnologies, Inc. 858-546-0004
Issue Date:	2016-05-05
Version:	3

16.4 Further Information

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data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. TriLink BioTechnologies, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product.

1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): High Fidelity PCR Master Mix
High Fidelity PCR Master Mix
Product Number: L-1101
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

2.4 Other

52.503% of the mixture consists of ingredient(s) of unknown toxicity

Note: No data available

3. COMPOSITION

3.1 Substances

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact: Immediately wash skin with soap and water.

Inhalation: Remove to fresh air.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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Trade Secret	-	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	-
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Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.

Respiratory Protection: Use in well ventilated areas.

General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation Avoid breathing vapors or mists. May cause irritation of respiratory tract.

Eye contact Redness. May cause slight irritation.

Skin contact Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.

Ingestion May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m ³ (Rat) 1 h

11.2 Information on toxicological effects

Symptoms No information available.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation: Mild

Serious Eye Damage/Eye Irritation: Mild

Skin or Respiratory Sensitization: No information available

Germ Cell Mutagenicity: No information available

Carcinogenicity: No information available

Reproductive Toxicity: No information available

Developmental Toxicity: No information available

Teratogenicity: No information available

STOT – Single Exposure: No information available

STOT – Repeated Exposure: No information available

Target Organs: Kidneys, eyes, skin, respiratory system

Chronic Toxicity: No information available

Subchronic Toxicity: No information available

Neurological Effects: No information available

Aspiration Hazard: No information available

Other Adverse Effects: No information available

11.4 Numerical measures of toxicity - Product information

Unknown acute toxicity: 50.15913% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available

52.503% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Trade Secret	-	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	-	500: 24 h Daphnia magna mg/L EC50
Trade Secret	1.01: 72 h Desmodesmus subspicatus mg/L EC50	34 - 62: 96 h Lepomis macrochirus mg/L LC50 static 44.2 - 76.5: 96 h Pimephales promelas mg/L LC50 static	-	113: 48 h Daphnia magna mg/L EC50 Static
Trade Secret	2500: 72 h Desmodesmus subspicatus mg/L EC50	1060: 96 h Lepomis macrochirus mg/L LC50 static 750 - 1020: 96 h Pimephales promelas mg/L LC50 static	-	825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available

Ozone Depletion Potential: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information: Keep out of drains, sewers, ditches and waterways.

Disposal Method: Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot: Not dangerous goods.

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

Right-to-Know Regulations:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Trade Secret	X	X	X

16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard: 0
Flammability: 0
Physical Hazard: 0
Chronic Health Hazard: 0

16.2 NFPA Rating

Health Hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

16.3 Preparation Information

Prepared By: TriLink BioTechnologies, Inc.
858-546-0004
Issue Date: 2016-05-05
Version: 3

16.4 Further Information

Copyright 2016 TriLink BioTechnologies, inc. License granted to make unlimited paper copies for internal use only. The above information is believed to be accurate, but not necessarily all inclusive, and thus should only be used as a guide in the handling and use of this material. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. TriLink BioTechnologies, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product.

1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): dNTP Mix
dNTP Mix
Product Number: N-2500-035
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

3. COMPOSITION

3.1 Substances

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact: Immediately wash skin with soap and water.
Inhalation: Remove to fresh air.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.
Respiratory Protection: Use in well ventilated areas.
General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms No information available.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available
Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone:	No information available
Ozone Depletion Potential:	No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information:	Keep out of drains, sewers, ditches and waterways.
Disposal Method:	Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.
Contaminated Packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot:	Not dangerous goods.
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15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CERCLA:	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65:	This product does not contain any Proposition 65 chemicals.
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16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard:	0
Flammability:	0
Physical Hazard:	0
Chronic Health Hazard:	0

16.2 NFPA Rating

Health Hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

16.3 Preparation Information

Prepared By:	TriLink BioTechnologies, Inc. 858-546-0004
Issue Date:	2016-05-05
Version:	3

16.4 Further Information

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data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. TriLink BioTechnologies, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product.

1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): Reverse Transcriptase
Reverse Transcriptase
Product Number: L-1005
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

3. COMPOSITION

3.1 Substances

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact: Immediately wash skin with soap and water.
Inhalation: Remove to fresh air.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol 56-81-5	-	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³	-

		mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	
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8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.

Respiratory Protection: Use in well ventilated areas.

General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms No information available.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available
Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available. 0.34061% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available

Ozone Depletion Potential: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information: Keep out of drains, sewers, ditches and waterways.

Disposal Method: Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot: Not dangerous goods.

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard: 0
Flammability: 0
Physical Hazard: 0
Chronic Health Hazard: 0

16.2 NFPA Rating

Health Hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

16.3 Preparation Information

Prepared By: TriLink BioTechnologies, Inc.
858-546-0004
Issue Date: 2016-05-05
Version: 3

16.4 Further Information

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): RT Buffer
RT Buffer
Product Number: L-1205
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

2.4 Other

3.93975% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION

3.1 Substances

Chemical Name	CAS No	Weight %	Trade Secret
Potassium Chloride	7447-40-7	1-5	*

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact: Immediately wash skin with soap and water.

Inhalation: Remove to fresh air.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.

Respiratory Protection: Use in well ventilated areas.

General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Chloride	= 2600 mg/kg (Rat)	-	-

11.2 Information on toxicological effects

Symptoms No information available.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available
Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available. 3.93975% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available

Ozone Depletion Potential: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information: Keep out of drains, sewers, ditches and waterways.

Disposal Method: Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot: Not dangerous goods.

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard: 0

Flammability: 0

Physical Hazard: 0

Chronic Health Hazard: 0

16.2 NFPA Rating

Health Hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

16.3 Preparation Information

Prepared By: TriLink BioTechnologies, Inc.
858-546-0004
Issue Date: 2016-05-05
Version: 3

16.4 Further Information

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): DTT
DTT
Product Number: L-1602
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday


2. HAZARD IDENTIFICATION

2.1 Classification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319

2.2 Label Elements

Pictogram 
Signal word Warning

Hazard Statement(s)
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statement(s)
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

3. COMPOSITION

3.1 Substances

Synonyms Dithiothreitol
(l)threo-1,4-Dimercapto-2,3-butanediol
Formula $C_4H_{10}O_2S_2$
Molecular Weight 154.25 g/mol
Hazardous Components

Component	Classification	Concentration
(R*,R*)-1,4-Dimercaptobutane-2,3-diol CAS No: 3483-12-3 EC No: 222-468-7	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H302, H315, H319, H335	>= 10 - < 20 %

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact: Immediately wash skin with soap and water.
Inhalation: Remove to fresh air.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

Carbon oxides, Sulphur oxides, Hydrogen sulfide gas.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8 °C. Air sensitive. Store under inert gas. Storage class (TRGS 510): Non Combustible Liquids

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.

Respiratory Protection: Use in well ventilated areas.

General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Unpleasant
pH:	3.0-5.0
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	1.04 g/mL at 20 °C (68 °F)
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available

Decomposition Temperature: No information available
Viscosity: No information available
Oxidizing Properties: No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms	No information available.
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11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available

Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone:	No information available
Ozone Depletion Potential:	No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information: Keep out of drains, sewers, ditches and waterways.

Disposal Method: Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot: Not dangerous goods.

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.
Right-to-Know Regulations:

Chemical Name	New Jersey	Pennsylvania
Water Cas No 7732-18-5	X	X
(R*,R*)-1,4-Dimercaptobutane-2,3-diol Cas No 3483-12-3	X	X

16. OTHER INFORMATION

16.1 Full text of H-Statements

Acute Tox. Acute toxicity
Eye Irrit. Eye irritation
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Skin Irrit. Skin irritation
STOT SE Specific target organ toxicity - single exposure

16.2 HMIS Rating

Health Hazard: 2
Flammability: *
Physical Hazard: 0
Chronic Health Hazard: 0

16.3 NFPA Rating

Health Hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

16.4 Preparation Information

Prepared By: TriLink BioTechnologies, Inc.
858-546-0004
Issue Date: 2016-05-05
Version: 3

16.5 Further Information

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name(s): RNase Inhibitor
RNase Inhibitor
Product Number: L-1004
CAS Number: Not applicable.

1.2 Uses

Recommended use: Laboratory chemicals, manufacture of substances.
Uses advised against: No Information Available

1.3 Details of the Supplier of the Safety Data Sheet

Supplier address: TriLink BioTechnologies, Inc.
9955 Mesa Rim Road
San Diego, CA 92121
USA
Company phone: 858-546-0004
800-863-6801 (toll free)
Fax: 858-546-0020
Email address: info@trilinkbiotech.com

1.4 Emergency Telephone Number

Emergency Phone: 858-546-0004
800-863-6801 (toll free)
7 am – 5 pm PST, Monday-Friday

2. HAZARD IDENTIFICATION

2.1 Classification

Not a dangerous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture.

2.3 Hazards not Otherwise Classified (HNOC) or not covered by GHS

None

2.4 Other

50.60002% of the mixture consists of ingredient(s) of unknown toxicity
Note: No data available

3. COMPOSITION

3.1 Substances

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact: Immediately wash skin with soap and water.

Inhalation: Remove to fresh air.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Consult a physician.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No information available.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No information available.

5. FIRE-FIGHTING MEASURE

5.1 Extinguishing Media

Suitable Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from Product

No information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

6.2 Environmental Precautions

See Section 12 for additional ecological information.

6.3 Methods and Materials for Containment and Clean Up

Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid breathing vapors, mists or gas. See Section 8 for personal protection.

7.2 Conditions for Safe Storage

Keep/store only in original container. Storage Temperature: At or below -40°C.

7.3 Incompatibilities

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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Glycerol 56-81-5	-	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	-
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Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

8.2 Appropriate Engineering Controls

General industrial hygiene practices.

8.3 Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Body Protection: Wear suitable protective clothing and gloves.

Respiratory Protection: Use in well ventilated areas.

General: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless
Odor:	Mild
pH:	Refer to trilinkbiotech.com for specific information.
Melting Point/Freezing Point:	No information available
Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Specific Density:	No information available
Water Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react briskly with oxidizers, danger of explosion.

10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

11.2 Information on toxicological effects

Symptoms	No information available.
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11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/Irritation:	Mild
Serious Eye Damage/Eye Irritation:	Mild
Skin or Respiratory Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive Toxicity:	No information available
Developmental Toxicity:	No information available
Teratogenicity:	No information available
STOT – Single Exposure:	No information available
STOT – Repeated Exposure:	No information available
Target Organs:	Kidneys, eyes, skin, respiratory system
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Neurological Effects:	No information available
Aspiration Hazard:	No information available
Other Adverse Effects:	No information available

11.4 Numerical Measures of Toxicity

Unknown acute toxicity	50.60002% of the mixture consists of ingredient(s) of unknown toxicity
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12. ECOLOGICAL INFORMATION

12.1 Marine pollutant

No information available

12.2 Ecotoxicity

No information available. 50.60002% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

12.3 Persistence and degradability

No information available

12.4 Bioaccumulation

No information available

12.5 Mobility

No information available

12.6 Other adverse effects

Ozone: No information available

Ozone Depletion Potential: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Relevant Information: Keep out of drains, sewers, ditches and waterways.

Disposal Method: Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Dot: Not dangerous goods.

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Clean Water Act (CWA): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2 US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

16.1 HMIS Rating

Health Hazard: 0

Flammability: 0
Physical Hazard: 0
Chronic Health Hazard: 0

16.2 NFPA Rating

Health Hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

16.3 Preparation Information

Prepared By: TriLink BioTechnologies, Inc.
858-546-0004
Issue Date: 2016-05-05
Version: 3

16.4 Further Information

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