

Safety Data Sheet

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GenenPlus LLC

1. PRODUCT AND COMPANY IDENTIFICATION

A. PRODUCT IDENTIFIERS

PRODUCT NAME : **toΨ\$σ toŮö\$σ Oligodeoxyribonucleic Acid , Modified, bŮΩ wİ\$ŮİŮŮŮ\$ Non-Hazardous**

SYNONYMS : **Modified Synthetic DNA, Modify Oligo**

PRODUCT NUMBER/CODES : **Proprietary Information**

B. DETAILS OF SUPPLIER OF THE SAFETY DATA SHEET

COMPANY : **D\$Ω\$ΩtPŃσ [[/**
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TELEPHONE : **1-800-328-2661**

EMERGENCY PHONE # : **24 Hour Emergency Telephone:**
CHEMTREC: 1-800-424-9300
Outside of the U.S. +1-301-431-8585

Note: CHEMTREC's emergency number is to be use only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

C. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE:

For research and development purposes only.

2. HAZARD IDENTIFICATION

A. GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

THIS PRODUCT IS CONSIDERED NON-HAZARDOUS. Per OSHA 29CFR1910.1200, Commonwealth of Australia [NOHSC: 1005, 1008(1999)], and the latest amendments to the European Union Directives 67/548/EC and 1999/45/EC, this product does not require a Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS). This product does not contain more than 1% of a component classified as hazardous and does not contain more than 0.1% of a component classified as carcinogenic. Despite the classification of certain products/components as non-hazardous, we strongly recommend using prudent laboratory practices: avoiding unnecessary contact and use of personal protective equipment, which may include gloves, eye protection, and lab coats, during the use of any laboratory reagent. D\$Ω\$ΩtPŃσ shall noŮ ö\$ 'İ\$P\$ PŮİŮP\$ ŮŮŮ any damages resultin° from handling or from contact with the above product.

I. PICTOGRAM: :NOT APPLICABLE

II. SIGNAL WORD :NOT APPLICABLE

III. HAZARD STATEMENTS :NOT APPLICABLE

IV. PRECAUTIONARY STATEMENTS: :NOT APPLICABLE

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	PERCENT	HAZARDOUS CLASSIFICATION
Oligodeoxyribonucleic acid, unmodified	N/A	85%-95%	NON-HAZARDOUS
Non-Radioactive modification	N/A	5%-15%	NON-HAZARDOUS

4. FIRST AID MEASURES

- | | |
|--------------------|---|
| SKIN CONTACT: | Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention. |
| EYE CONTACT: | Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention. |
| INGESTION: | Get medical attention. |
| INHALATION: | Remove from exposure area to fresh air immediately. Get medical attention immediately. |
| INJECTION: | If accidentally injected, get medical attention. |
| NOTE TO PHYSICIAN: | There is no specific antidote. Treat symptomatically and supportively. |
5. **FIRE FIGHTING MEASURES**
- | | |
|----------------------------|--|
| Fire and Explosion Hazard: | None known to exist. |
| Fire Extinguishing Media: | Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk. |
6. **ACCIDENTAL RELEASE MEASURES**
- | | |
|---------------------------|---|
| OCCUPATIONAL SPILL: | Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse. |
| REPORTABLE QUANTITY (RQ): | Not Applicable |
7. **HANDLING AND STORAGE**
- Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed. Store in a cool dry place (prolonged storage at 4° C). Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.
8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**
- | | |
|--------------------|--|
| EXPOSURE CONTROLS: | Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity. |
| EYE PROTECTION: | Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance. |
| CLOTHING: | Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material. |
| GLOVES: | Employee must wear appropriate protective gloves to prevent contact with this material. |
9. **PHYSICAL AND CHEMICAL PROPERTIES**
- | | |
|-------------------|--|
| DESCRIPTION: | Translucent or opaque flake, film or powder like substance |
| PH: | Not Available |
| MOLECULAR WEIGHT: | Varies |
10. **STABILITY AND REACTIVITY**
- | | |
|---------------------|--|
| REACTIVITY: | No adverse reactions have been reported. |
| CONDITIONS TO AVOID | Prolonged Storage. Keep at 4° C. |
| INCOMPATIBILITIES: | Not Available |
| POLYMERIZATION: | Not Available |
11. **TOXICOLOGICAL INFORMATION**

TOXICITY:	The toxicological properties of this material have not been investigated. For research and development purposes only.
CARCINOGEN STATUS:	No information available.
LOCAL EFFECTS:	No information available.
TARGET EFFECTS:	No information available.
AT INCREASED RISK FROM EXPOSURE:	No information available.
CARCINOGEN/REPRODUCTIVE TOXIN STATUS:	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT RATING (0-4):	No data available
ACUTE AQUATIC TOXICITY:	No data available
DEGRADABILITY:	No data available
LOG BIOCONCENTRATION FACTOR (BCF):	No data available

13. DISPOSAL CONSIDERATIONS

Observe all Federal, State and Local Regulations.

14. TRANSPORTATION INFORMATION

Ship as a non-regulated material. No transportation restrictions apply. The acute toxicity profile does not warrant shipment as a hazardous material (DOT) or a dangerous good (IATA).

15. REGULATORY INFORMATION

The toxicological properties of this material have not been investigated. For research and development purposes only.

16. OTHER INFORMATION

POTENTIAL HEALTH EFFECTS:

SKIN CONTACT:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
EYE CONTACT:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
INGESTION:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
INHALATION:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
INJECTION:	Short Term Exposure:	No information available
	Long Term Exposure	No information available

THE AFOREMENTIONED INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. D9b9bt[{\$ { I ALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTIND FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRO5U/T.

SAFETY DATA SHEET

GenenPlus LLC

1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance/preparation

Product code -
Product name Reaction Enhancer

Company/Undertaking Identification

GenenPlus LLC
640 E Ryan Rd Ste 230
Oak Creek 53154 WI USA
contact@genenplus.com

24 hour Emergency Response: 866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

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

2. Hazards identification

GHS - Classification

Signal Word
not hazardous

Health Hazard
not hazardous

Physical Hazards
not hazardous

Principle Routes of Exposure/ Potential Health effects

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

Revision Date 03-Mar-2014
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Page 1 / 5
Product name Reaction Enhancer

Specific effects

Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none

Target Organ Effects No known effects under normal use conditions.

HMIS

Health	0
Flammability	0
Reactivity	0

3. Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. First aid measures

Skin contact	Rinse with plenty of water. If symptoms arise, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

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

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. Handling and storage

Revision Date 03-Mar-2014
Product code -

Page 2 / 5
Product name Reaction Enhancer

Handling	Always wear recommended Personal Protective Equipment. No special handling advice required.
Storage	Keep in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Exposure limits

We are not aware of any national exposure limit.

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

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

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Safety glasses with side-shields.

Skin and body protection. Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains.

9. Physical and chemical properties

General Information

Form	liquid	
Appearance	No information available	
Odor	No information available	
Boiling Point/Range	°C no data available	°F no data available
Melting point/range	°C no data available	°F no data available
Flash point	°C no data available	°F no data available
Autoignition temperature	°C no data available	°F no data available
Oxidizing properties	No information available.	
Water solubility	soluble	

10. Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	None under normal use
polymerization	Hazardous polymerisation does not occur.

11. Toxicological information

Acute toxicity

Revision Date 03-Mar-2014
Product code -

Page 3 / 5
Product name Reaction Enhancer

not hazardous

**Principle Routes of Exposure/
Potential Health effects**

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none
Target Organ Effects	No known effects under normal use conditions.

12. Ecological information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable
Bioaccumulation	Does not bioaccumulate.

13. Disposal considerations

Dispose of in accordance with local regulations.

14. Transport information

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard class	none
Subsidiary Class	none
Packing group	none
UN-No	None

15. Regulatory information

U.S. Federal Regulations

SARA 313

This product is not regulated by SARA.

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

This product does not contain HAPs.

U.S. State Regulations

California Proposition 65

This product does not contain chemicals listed under Proposition 65

WHMIS Hazard Class

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. Other information

Reason for Revision (M)SDS sections updated.

For Research Use Only. Not for use in diagnostic procedures.

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

End of Safety Data Sheet

SAFETY DATA SHEET

GenenPlus LLC

1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance/preparation

Product code -
Product name Calibrator Diluent

Company/Undertaking Identification

GenenPlus LLC
640 E Ryan Rd Ste 230
Oak Creek 53154 WI USA
contact@genenplus.com

24 hour Emergency Response: 866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

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

2. Hazards identification

GHS - Classification

Signal Word
not hazardous

Health Hazard
not hazardous

Physical Hazards
not hazardous

Principle Routes of Exposure/ Potential Health effects

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

Revision Date 17-Oct-2013
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Page 1 / 5
Product name Calibrator Diluent

Specific effects

Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none

Target Organ Effects No known effects under normal use conditions.

HMIS

Health	0
Flammability	0
Reactivity	0

3. Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. First aid measures

Skin contact	Rinse with plenty of water. If symptoms arise, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

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

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. Handling and storage

Handling	Always wear recommended Personal Protective Equipment. No special handling advice required.
Storage	Keep in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Exposure limits

We are not aware of any national exposure limit.

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

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

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Safety glasses with side-shields.

Skin and body protection. Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains.

9. Physical and chemical properties

General Information

Form	liquid	
Appearance	No information available	
Odor	No information available	
Boiling Point/Range		°F no data available
Melting point/range	°C no data available	
Flash point	°C no data available	°F no data available
Autoignition temperature	°C no data available	°F no data available
Oxidizing properties	No information available.	
Water solubility	soluble	

10. Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	None under normal use
polymerization	Hazardous polymerisation does not occur.

11. Toxicological information

Acute toxicity

not hazardous

**Principle Routes of Exposure/
Potential Health effects**

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none
Target Organ Effects	No known effects under normal use conditions.

12. Ecological information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable
Bioaccumulation	Does not bioaccumulate.

13. Disposal considerations

Dispose of in accordance with local regulations.

14. Transport information

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard class	none
Subsidiary Class	none
Packing group	none
UN-No	None

15. Regulatory information

U.S. Federal Regulations

SARA 313

This product is not regulated by SARA.

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

This product does not contain HAPs.

U.S. State Regulations

California Proposition 65

This product does not contain chemicals listed under Proposition 65

WHMIS Hazard Class

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. Other information

Reason for Revision (M)SDS sections updated.

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

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

End of Safety Data Sheet

Safety Data Sheet

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GenenPlus LLC

1. PRODUCT AND COMPANY IDENTIFICATION

A. PRODUCT IDENTIFIERS

PRODUCT NAME : **Calibrators**
Non-Radioactive, Non-Hazardous

SYNONYMS :
PRODUCT NUMBER/CODES : **Proprietary Information**

B. DETAILS OF SUPPLIER OF THE SAFETY DATA SHEET

COMPANY : **GenenPlus LLC**
: **640 E Ryan Rd Ste 230**
: **Oak Creek WI 53154 USA**

TELEPHONE : **1-800-328-2661**
EMERGENCY PHONE # : **24 Hour Emergency Telephone:**
CHEMTREC: 1-800-424-9300
Outside of the U.S. +1-301-431-8585

Note: CHEMTREC's emergency number is to be use only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

C. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE:

For research and development purposes only.

2. HAZARD IDENTIFICATION

A. GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

THIS PRODUCT IS CONSIDERED NON-HAZARDOUS. Per OSHA 29CFR1910.1200, Commonwealth of Australia [NOHSC: 1005, 1008(1999)], and the latest amendments to the European Union Directives 67/548/EC and 1999/45/EC, this product does not require a Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS). This product does not contain more than 1% of a component classified as hazardous and does not contain more than 0.1% of a component classified as carcinogenic. Despite the classification of certain products/components as non-hazardous, we strongly recommend using prudent laboratory practices: avoiding unnecessary contact and use of personal protective equipment, which may include gloves, eye protection, and lab coats, during the use of any laboratory reagent. GenenPlus shall not be held liable for any damages resulting from handling or from contact with the above product.

I. PICTOGRAM: :NOT APPLICABLE
II. SIGNAL WORD :NOT APPLICABLE
III. HAZARD STATEMENTS :NOT APPLICABLE
IV. PRECAUTIONARY STATEMENTS: :NOT APPLICABLE

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	PERCENT	HAZARDOUS CLASSIFICATION
Calibrators	N/A	100 %	NON-HAZARDOUS
-			
-		-	-

4. **FIRST AID MEASURES**

SKIN CONTACT:	Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.
EYE CONTACT:	Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.
INGESTION:	Get medical attention.
INHALATION:	Remove from exposure area to fresh air immediately. Get medical attention immediately.
INJECTION:	If accidentally injected, get medical attention.
NOTE TO PHYSICIAN:	There is no specific antidote. Treat symptomatically and supportively.

5. **FIRE FIGHTING MEASURES**

Fire and Explosion Hazard:	None known to exist.
Fire Extinguishing Media:	Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

6. **ACCIDENTAL RELEASE MEASURES**

OCCUPATIONAL SPILL:	Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.
REPORTABLE QUANTITY (RQ):	Not Applicable

7. **HANDLING AND STORAGE**

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed. Store in a cool dry place (prolonged storage at 4° C). Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

EXPOSURE CONTROLS:	Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.
EYE PROTECTION:	Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.
CLOTHING:	Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.
GLOVES:	Employee must wear appropriate protective gloves to prevent contact with this material.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

DESCRIPTION:	Clear to white
PH:	7.5
MOLECULAR WEIGHT:	Varies

10. **STABILITY AND REACTIVITY**

REACTIVITY:	No adverse reactions have been reported.
CONDITIONS TO AVOID	Prolonged Storage. Keep at 4° C.
INCOMPATIBILITIES:	Not Available
POLYMERIZATION:	Not Available

11. TOXICOLOGICAL INFORMATION

TOXICITY:	The toxicological properties of this material have not been investigated. For research and development purposes only.
CARCINOGEN STATUS:	No information available.
LOCAL EFFECTS:	No information available.
TARGET EFFECTS:	No information available.
AT INCREASED RISK FROM EXPOSURE:	No information available.
CARCINOGEN/REPRODUCTIVE TOXIN STATUS:	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT RATING (0-4):	No data available
ACUTE AQUATIC TOXICITY:	No data available
DEGRADABILITY:	No data available
LOG BIOCONCENTRATION FACTOR (BCF):	No data available

13. DISPOSAL CONSIDERATIONS

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SKIN CONTACT:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
EYE CONTACT:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
INGESTION:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
INHALATION:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
INJECTION:	Short Term Exposure:	No information available
	Long Term Exposure	No information available

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Safety Data Sheet

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GenenPlus LLC

1. PRODUCT AND COMPANY IDENTIFICATION

A. PRODUCT IDENTIFIERS

PRODUCT NAME : **Gene Expression Master Mix**
SYNONYMS : **N/A**
INDEX # : **N/A**
CAS # : **N/A**

B. DETAILS OF SUPPLIER OF THE SAFETY DATA SHEET

COMPANY : GenenPlus
: **640 E Ryan Rd Ste 230**
Oak Creek WI 53154
TELEPHONE : **1-800-328-2661**
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IV. PRECAUTIONARY STATEMENTS: :NOT APPLICABLE

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4. FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.

EYE CONTACT: Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of Water. Never give anything by mouth to an unconscious person.

INHALATION: Remove from exposure area to fresh air immediately. Get medical attention immediately.

INJECTION: If accidentally injected, get medical attention.

5. **FIRE FIGHTING MEASURES**Fire and Explosion Hazard: **Non-Flammable**Fire Extinguishing Media: **N/A**6. **ACCIDENTAL RELEASE MEASURES**OCCUPATIONAL SPILL: **Absorb spill with inert material, then place in a chemical waste Container. Dispose of in a manner consistent with federal, local law.**REPORTABLE QUANTITY (RQ): **Not Applicable**7. **HANDLING AND STORAGE**

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed. Store in a cool dry place (prolonged storage at -20° C). Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**EXPOSURE CONTROLS: **Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.**EYE PROTECTION: **Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.**CLOTHING: **Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.**GLOVES: **Employee must wear appropriate protective gloves to prevent contact with this material.**9. **PHYSICAL AND CHEMICAL PROPERTIES**DESCRIPTION: **Clear liquid.**PH: **8-9**10. **STABILITY AND REACTIVITY**REACTIVITY: **Stable under recommended storage conditions.**CONDITIONS TO AVOID **Avoid contact with electrical sources**INCOMPATIBILITIES: **Strong oxidizing agents, strong acids, strong bases, water incompatible materials**POLYMERIZATION: **Not Available**11. **TOXICOLOGICAL INFORMATION**TOXICITY: **The toxicological properties of this material have not been investigated. For research and development purposes only.**CARCINOGEN STATUS: **No information available.**LOCAL EFFECTS: **No information available.**TARGET EFFECTS: **No information available.**AT INCREASED RISK FROM EXPOSURE: **No information available.**

CARCINOGEN/REPRODUCTIVE TOXIN STATUS:

IARC **No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC**ACGIH **No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH**NTP **No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP**OSHA **No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA**

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT RATING (0-4):	No data available
ACUTE AQUATIC TOXICITY:	No data available
DEGRADABILITY:	No data available
LOG BIOCONCENTRATION FACTOR (BCF):	No data available

13. DISPOSAL CONSIDERATIONS

Observe all Federal, State and Local Regulations.

14. TRANSPORTATION INFORMATION

Ship as a non-regulated material. No transportation restrictions apply. The acute toxicity profile does not warrant shipment as a hazardous material (DOT) or a dangerous good (IATA).

15. REGULATORY INFORMATION

The toxicological properties of this material have not been investigated. For research and development purposes only.

16. OTHER INFORMATION**POTENTIAL HEALTH EFFECTS:**

SKIN CONTACT:	Short Term Exposure:	May be harmful if absorbed through skin –May cause chemical burns.
	Long Term Exposure	No information available
EYE CONTACT:	Short Term Exposure:	Irritating to mucus membranes
	Long Term Exposure	No information available
INGESTION:	Short Term Exposure:	May be toxic if swallowed. Irritating to mucus membranes.
	Long Term Exposure	No information available
INHALATION:	Short Term Exposure:	May be irritating if inhaled. Irritating to mucus membranes.
	Long Term Exposure	May cause long term health effects
INJECTION:	Short Term Exposure:	No information available
	Long Term Exposure	No information available

THE AFOREMENTIONED INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. GENENPLUS SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

GenenPlus LLC

1. PRODUCT AND COMPANY IDENTIFICATION

A. PRODUCT IDENTIFIERS

PRODUCT NAME : **Positive Control**
Non-Radioactive, Non-Hazardous

SYNONYMS :
 PRODUCT NUMBER/CODES : **Proprietary Information**

B. DETAILS OF SUPPLIER OF THE SAFETY DATA SHEET

COMPANY : **GenenPlus LLC**
 : **640 E Ryan Rd Ste 230**
Oak Creek WI 53154 USA

TELEPHONE : **1-800-328-2661**
 EMERGENCY PHONE # : **24 Hour Emergency Telephone:**
CHEMTREC: 1-800-424-9300
Outside of the U.S. +1-301-431-8585

Note: CHEMTREC's emergency number is to be use only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

C. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE:

For research and development purposes only.

2. HAZARD IDENTIFICATION

A. GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

THIS PRODUCT IS CONSIDERED NON-HAZARDOUS. Per OSHA 29CFR1910.1200, Commonwealth of Australia [NOHSC: 1005, 1008(1999)], and the latest amendments to the European Union Directives 67/548/EC and 1999/45/EC, this product does not require a Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS). This product does not contain more than 1% of a component classified as hazardous and does not contain more than 0.1% of a component classified as carcinogenic. Despite the classification of certain products/components as non-hazardous, we strongly recommend using prudent laboratory practices: avoiding unnecessary contact and use of personal protective equipment, which may include gloves, eye protection, and lab coats, during the use of any laboratory reagent. GenenPlus shall not be held liable for any damages resulting from handling or from contact with the above product.

I. PICTOGRAM: :NOT APPLICABLE
 II. SIGNAL WORD :NOT APPLICABLE
 III. HAZARD STATEMENTS :NOT APPLICABLE
 IV. PRECAUTIONARY STATEMENTS: :NOT APPLICABLE

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	PERCENT	HAZARDOUS CLASSIFICATION
Synthetic genes	N/A	100 %	NON-HAZARDOUS
-	-	-	-
-	-	-	-
-	-	-	-

4. **FIRST AID MEASURES**

SKIN CONTACT:	Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.
EYE CONTACT:	Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.
INGESTION:	Get medical attention.
INHALATION:	Remove from exposure area to fresh air immediately. Get medical attention immediately.
INJECTION:	If accidentally injected, get medical attention.
NOTE TO PHYSICIAN:	There is no specific antidote. Treat symptomatically and supportively.

5. **FIRE FIGHTING MEASURES**

Fire and Explosion Hazard:	None known to exist.
Fire Extinguishing Media:	Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

6. **ACCIDENTAL RELEASE MEASURES**

OCCUPATIONAL SPILL:	Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.
REPORTABLE QUANTITY (RQ):	Not Applicable

7. **HANDLING AND STORAGE**

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed. Store in a cool dry place (prolonged storage at 4° C). Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

EXPOSURE CONTROLS:	Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.
EYE PROTECTION:	Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.
CLOTHING:	Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.
GLOVES:	Employee must wear appropriate protective gloves to prevent contact with this material.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

DESCRIPTION:	Clear to white
PH:	7.5
MOLECULAR WEIGHT:	Varies

10. **STABILITY AND REACTIVITY**

REACTIVITY:	No adverse reactions have been reported.
CONDITIONS TO AVOID	Prolonged Storage. Keep at 4° C.
INCOMPATIBILITIES:	Not Available
POLYMERIZATION:	Not Available

11. TOXICOLOGICAL INFORMATION

TOXICITY:	The toxicological properties of this material have not been investigated. For research and development purposes only.
CARCINOGEN STATUS:	No information available.
LOCAL EFFECTS:	No information available.
TARGET EFFECTS:	No information available.
AT INCREASED RISK FROM EXPOSURE:	No information available.
CARCINOGEN/REPRODUCTIVE TOXIN STATUS:	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT RATING (0-4):	No data available
ACUTE AQUATIC TOXICITY:	No data available
DEGRADABILITY:	No data available
LOG BIOCONCENTRATION FACTOR (BCF):	No data available

13. DISPOSAL CONSIDERATIONS

Observe all Federal, State and Local Regulations.

14. TRANSPORTATION INFORMATION

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15. REGULATORY INFORMATION

The toxicological properties of this material have not been investigated. For research and development purposes only.

16. OTHER INFORMATION**POTENTIAL HEALTH EFFECTS:**

SKIN CONTACT:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
EYE CONTACT:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
INGESTION:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
INHALATION:	Short Term Exposure:	Possible Irritant
	Long Term Exposure	No information available
INJECTION:	Short Term Exposure:	No information available
	Long Term Exposure	No information available

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