

# **SAFETY DATA SHEET**

# MDx TaqMan 2X RT- PCR Master Mix

# Section 1. Identification

Product Identifier:	MDx TaqMan 2X RT- PCR Master Mix
Product code:	TMM4100
Product Type:	Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
Emergency telephone number (with hours	CHEMTREC U.S. & Canada: 1-800-424-9300

# Section 2. Hazard Identification

Classification of the Substance or mixture:	Not a Hazardous Substance or Mixture
<u>GHS label elements</u> Hazard Pictograms: Signal Word: Hazard Statements:	No hazard pictogram required. No signal word required. No hazard statement(s) required
Precautionary statements: Prevention: Response:	No precautionary statement(s) required)

of operation):



# Section 2. Hazard Identification

Storage:Not applicable.Disposal:Not applicable.

# Section 3. Composition/information on ingredients

Substance/mixture:mixtureOther means ofNot Applicable

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First-aid measures

#### **Description of necessary first aid measures**

Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and
	lower eyelids. Check for and remove any contact lenses. Continue to rinse for at
	least 20 minutes. Get medical attention.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for
	breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,
	provide artificial respiration or oxygen by trained personnel. It may be dangerous
	to the person providing aid to give mouth-to-mouth resuscitation. Get medical
	attention if adverse health effects persist or are severe. If unconscious, place in
	recovery position and get medical attention immediately. Maintain an open
	airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact:	Flush contaminated skin with plenty of water. Get medical attention if symptoms
	occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion:	Wash out mouth with water. Remove dentures if any. If material has been
	swallowed and the exposed person feels sick as vomiting may be dangerous. Do
	not induce vomiting unless directed to do so by medical personnel. If vomiting
	occurs, the head should be kept low so that vomit does not enter the lungs. Get
	medical attention if adverse health effects persist or are severe. Never give
	anything by mouth to an unconscious person. If unconscious, place in recovery
	position and get medical attention immediately. Maintain an open airway. Loosen
	tight clothing such as a collar, tie, belt or waistband.



# Section 4. First-aid measures

#### Most important symptoms/effects, acute and delayed

Potential acute h	ealth effects
Eye contact:	In case of contact with eyes, rinse out with water. Remove contact lenses.
Inhalation:	If inhaled, move patient to fresh air.
Skin contact:	In case of skin contact, rinse skin with water. Remove contaminated clothing.
Ingestion:	In case of ingestion, do not induce vomiting. Drink water. Consult a doctor if feeling unwell.

#### **Over-exposure signs/symptoms**

Eye contact:	Possible irritation	
Inhalation:	Possible cough, possible irritation	
Skin contact:	Possible irritation	
Ingestion:	Possible stomach pains	

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Not applicable
Specific treatments:	No data available
Protection of	
first-aiders:	No data available

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media** Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given. Specific hazards arising from the chemical: Not combustible. Ambient fire may liberate hazardous vapours Hazardous thermal decomposition products: None **Special protective** actions for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Special protective



#### equipment for

Section 6. Accidental release measures		
fire-fighters:	In the event of fire, wear self-contained breathing apparatus.	
Personal precaution	s, protective equipment, and emergency procedures	
For non-emergency		
personnel:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.	
For emergency		
responders:	Advice for emergency responders: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures. For personal protection see section 8.	
Environmental		
precautions:	No special precautionary measures necessary	
Methods and materials for containment and cleaning up		
Small spill:	Dilute with water. Wipe up with absorbent pad.	
Large spill:	Observe possible material restrictions (see sections 7 and 10). Take up with liquid	
	absorbent material. Dispose of properly. Clean up affected area.	

# Section 7. Handling and storage

# Precautions for safe handlingProtective measures:For precautions see section 2.Advice on generaloccupationaloccupationalWear appropriate PPE (if any) when handling.Conditions for safestorage, includingincompatibilities:No special storage conditions required. Keep tightly closed.

# Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits** 

Contains no substances with occupational exposure limit values

#### Appropriate engineering

controls:Not required.EnvironmentalNot required.exposure controls:Not required.



#### Individual protection measures Hygiene measures: No data available Eye/face protection:

Skin protection	
Hand protection:	Not required
Body protection:	Not required
Other skin	
protection:	Not required
Respiratory	
protection:	Not required

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### Appearance:

Physical State:	Liquid
Color:	Clear, colourless
Odor:	Not available.
Odor threshold:	Not available.
pH:	7
Melting point/	
freezing point:	Not applicable.
Boiling point, initial	
boiling point, and	
boiling range:	Not available.
Flash point:	Not applicable.
Evaporation rate:	Not available.
Flammability:	Not available.
Lower and upper	
explosion limit/	
flammability limit:	Not available.
Vapor pressure:	Not available.
Relative vapor	
density:	Not available.
Relative density:	Not available.
Solubility:	Miscible in water.
Partition coefficient:	Not applicable.
n-octanol/water	



Auto-ignitiontemperature:Not available.Decompositiontemperature:Not available.Viscosity:Not available.Flow time(ISO 2431):Not available.Particle characteristicsMedian particle size:Not applicable.

# Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of	
hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible	
materials:	Reactive or incompatible with the following materials; oxidizing materials, acids and alkalis.
Hazardous	
decomposition	
products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicology information

#### Information on toxicology effects

#### Acute toxicity

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Irritation/Corrosion

To the best of our knowledge, this mixture is not considered an irritant or corrosive.

#### **Sensitization**

There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

#### Reproductive toxicity

There is no data available.

**Teratogenicity** 



There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

#### Information on the

#### likely routes of

exposure:

Most likely routes of exposure are: Inhalation, Ingestion, skin contact. No hazards known for listed routes of exposure

#### Potential acute health effects

Eye contact:	No data available
Inhalation:	No data available
Skin contact:	No data available
Ingestion:	No data available

#### Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact:	No data available
Inhalation:	No data available
Skin contact:	No data available
Ingestion:	No data available

#### Delayed and immediate effects and chronic effects from short- and long-term exposure

Short term exposure			
Potential immediate			
effects:	No data available		
Potential delayed			
effects:	No data available		
Long term exposure			
Potential immediate			
effects:	No data available		
Potential delayed			
effects:	No data available		
Potential chronic health effects			
General:	No data available		
Carcinogenicity:	No data available		

Mutagenicity:No data availableReproductiveVo data availabletoxicity:No data available

#### Numerical measures of toxicity

#### Acute toxicity estimates

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# Section 12. Ecological information

<u>Toxicity</u>		
There is no data available.		
Persistence and degradabilit	Y	
There is no data available.		
<u>Mobility in soil</u>		
Soil/water partition		
coefficient (K <sub>oc</sub> ):	Not available.	
• • • •		

**Other adverse effects:** No known significant effect or critical hazards.

# Section 13. Disposal considerations

# **Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



# Section 14. Transport information

	<b>TGD Classification</b>	DOT Classification (US)	IMGD	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper	-	-	-	-
shipping name				
Transport	-	-	-	-
hazard				
class(es)				
Packing group	-	-	-	-
Environmental	No.	No.	No.	No.
hazards				

AERG:	Not applicable.
Special precautions	
for user:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO instruments:	Not available.
instruments:	NUL avallable.

# Section 15. Regulatory information

<u>Canadian lists</u>			
Canadian NPRI:	The following components are listed: No listed components		
CEPA Toxic			
substances:	None of the components are listed.		
International regulati	<u>ons</u>		
Chemical Weapon Co	nvention List Schedules I, II, & III Chemicals		
Not listed			
Montreal Protocol			
Not listed			
Stockholm Convention on Persistent Organic Pollutants			
Not listed			
<b>Rotterdam Convention on Prior Informed Consent (PIC)</b>			
Not listed			
UNECE Aarhus Protocol on POPs and Heavy Metals			
Not Listed			



#### Inventory list

Canada:

All components are listed or exempted.

# Section 16. Other information

<u>History</u>	
Date of issue/Date	
of revision:	09/11/2024
Date of previous	
issue:	12/15/2021
Version:	03
Prepared by:	Norgen Biotek Corp.
Key to abbreviations:	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	HPR = Hazardous Products Regulations
	IATA = International Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
Non-Hazardous	This substance/mixture does not contain hazardous components

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



# **SAFETY DATA SHEET**

**PPV Primer & Probe Mix** 

# Section 1. Identification

Product Identifier:	PPV Primer & Probe Mix
Product code:	TM33451
Product Type:	Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
Emergency telephone number (with hours	CHEMTREC U.S. & Canada: 1-800-424-9300

# Section 2. Hazard Identification

Classification of the Substance or mixture:	Not a Hazardous Substance or Mixture
<u>GHS label elements</u> Hazard Pictograms: Signal Word: Hazard Statements:	No hazard pictogram required. No signal word required. No hazard statement(s) required
Precautionary statements: Prevention: Response:	No precautionary statement(s) required)

of operation):



# Section 2. Hazard Identification

Storage:Not applicable.Disposal:Not applicable.

# Section 3. Composition/information on ingredients

Substance/mixture:mixtureOther means ofNot Applicable

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First-aid measures

#### **Description of necessary first aid measures**

Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and
	lower eyelids. Check for and remove any contact lenses. Continue to rinse for at
	least 20 minutes. Get medical attention.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for
	breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,
	provide artificial respiration or oxygen by trained personnel. It may be dangerous
	to the person providing aid to give mouth-to-mouth resuscitation. Get medical
	attention if adverse health effects persist or are severe. If unconscious, place in
	recovery position and get medical attention immediately. Maintain an open
	airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact:	Flush contaminated skin with plenty of water. Get medical attention if symptoms
	occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion:	Wash out mouth with water. Remove dentures if any. If material has been
	swallowed and the exposed person feels sick as vomiting may be dangerous. Do
	not induce vomiting unless directed to do so by medical personnel. If vomiting
	occurs, the head should be kept low so that vomit does not enter the lungs. Get
	medical attention if adverse health effects persist or are severe. Never give
	anything by mouth to an unconscious person. If unconscious, place in recovery
	position and get medical attention immediately. Maintain an open airway. Loosen
	tight clothing such as a collar, tie, belt or waistband.



# Section 4. First-aid measures

#### Most important symptoms/effects, acute and delayed

Potential acute health effects			
<b>Eye contact:</b> In case of contact with eyes, rinse out with water. Remove contact lenses.			
Inhalation:	If inhaled, move patient to fresh air.		
Skin contact:	In case of skin contact, rinse skin with water. Remove contaminated clothing.		
Ingestion:	In case of ingestion, do not induce vomiting. Drink water. Consult a doctor if feeling unwell.		

#### **Over-exposure signs/symptoms**

Eye contact:	Possible irritation
Inhalation:	Possible cough, possible irritation
Skin contact:	Possible irritation
Ingestion:	Possible stomach pains

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Not applicable
Specific treatments:	No data available
Protection of	
first-aiders:	No data available

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media** Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given. Specific hazards arising from the chemical: Not combustible. Ambient fire may liberate hazardous vapours Hazardous thermal decomposition products: None Special protective actions for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Special protective



#### equipment for

Section 6. Accidental release measures		
fire-fighters:	In the event of fire, wear self-contained breathing apparatus.	
Personal precautions	s, protective equipment, and emergency procedures	
For non-emergency		
personnel:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.	
For emergency		
responders:	Advice for emergency responders: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures. For personal protection see section 8.	
Environmental		
precautions:	No special precautionary measures necessary	
Methods and materials for containment and cleaning up		
Small spill:	Dilute with water. Wipe up with absorbent pad.	
Large spill:	Observe possible material restrictions (see sections 7 and 10). Take up with liquid	
	absorbent material. Dispose of properly. Clean up affected area.	

# Section 7. Handling and storage

Precautions for safe handling			
Protective measures:	For precautions see section 2.		
Advice on general			
occupational			
hygiene:	Wear appropriate PPE (if any) when handling.		
Conditions for safe			
storage, including			
incompatibilities:	No special storage conditions required. Keep tightly closed.		

# Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits** 

Contains no substances with occupational exposure limit values

#### Appropriate engineering

controls:Not required.EnvironmentalNot required.exposure controls:Not required.



#### Individual protection measures Hygiene measures: No data available Eye/face protection:

Skin protection	
Hand protection:	Not required
Body protection:	Not required
Other skin	
protection:	Not required
Respiratory	
protection:	Not required

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### Appearance:

Physical State:	Liquid
Color:	Clear, colourless
Odor:	Not available.
Odor threshold:	Not available.
pH:	7
Melting point/	
freezing point:	Not applicable.
Boiling point, initial	
boiling point, and	
boiling range:	Not available.
Flash point:	Not applicable.
Evaporation rate:	Not available.
Flammability:	Not available.
Lower and upper	
explosion limit/	
flammability limit:	Not available.
Vapor pressure:	Not available.
Relative vapor	
density:	Not available.
Relative density:	Not available.
Solubility:	Miscible in water.
Partition coefficient:	Not applicable.
n-octanol/water	



Auto-ignitiontemperature:Not available.Decompositiontemperature:Not available.Viscosity:Not available.Flow timeInstant (ISO 2431):Median particle size:Not applicable.

# Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of	
hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible	
materials:	Reactive or incompatible with the following materials; oxidizing materials, acids and alkalis.
Hazardous	
decomposition	
products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicology information

#### Information on toxicology effects

#### Acute toxicity

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Irritation/Corrosion

To the best of our knowledge, this mixture is not considered an irritant or corrosive.

#### Sensitization

There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

#### **Reproductive toxicity**

There is no data available.

#### **Teratogenicity**



There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

#### Information on the

likely routes of

exposure:

Most likely routes of exposure are: Inhalation, Ingestion, skin contact. No hazards known for listed routes of exposure

#### Potential acute health effects

Eye contact:	No data available
Inhalation:	No data available
Skin contact:	No data available
Ingestion:	No data available

#### Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact:	No data available
Inhalation:	No data available
Skin contact:	No data available
Ingestion:	No data available

#### Delayed and immediate effects and chronic effects from short- and long-term exposure

Short term exposure		
Potential immediate		
effects:	No data available	
Potential delayed		
effects:	No data available	
Long term exposure		
Potential immediate		
effects:	No data available	
Potential delayed		
effects:	No data available	
Potential chronic health effects		
General:	No data available	
Carcinogenicity:	No data available	



Mutagenicity:No data availableReproductiveVo data availabletoxicity:No data available

#### Numerical measures of toxicity

#### Acute toxicity estimates

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# Section 12. Ecological information

<u>Toxicity</u>		
There is no data available.		
Persistence and degradabilit	Y	
There is no data available.		
<u>Mobility in soil</u>		
Soil/water partition		
coefficient (K <sub>oc</sub> ):	Not available.	
-		

**Other adverse effects:** No known significant effect or critical hazards.

# Section 13. Disposal considerations

# **Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



# Section 14. Transport information

	<b>TGD Classification</b>	DOT Classification (US)	IMGD	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper	-	-	-	-
shipping name				
Transport	-	-	-	-
hazard				
class(es)				
Packing group	-	-	-	-
Environmental	No.	No.	No.	No.
hazards				

AERG:	Not applicable.
Special precautions	
for user:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO instruments:	Not available.

# Section 15. Regulatory information

<u>Canadian lists</u>		
Canadian NPRI:	The following components are listed: No listed components	
CEPA Toxic		
substances:	None of the components are listed.	
International regulati	<u>ons</u>	
Chemical Weapon Co	nvention List Schedules I, II, & III Chemicals	
Not listed		
Montreal Protocol		
Not listed		
Stockholm Convention on Persistent Organic Pollutants		
Not listed		
<b>Rotterdam Convention on Prior Informed Consent (PIC)</b>		
Not listed		
UNECE Aarhus Protoc	col on POPs and Heavy Metals	
Not Listed		



# Inventory list

Canada:

All components are listed or exempted.

# Section 16. Other information

<u>History</u>	
Date of issue/Date	
of revision:	09/09/2024
Date of previous	
issue:	12/15/2021
Version:	03
Prepared by:	Norgen Biotek Corp.
Key to abbreviations:	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	HPR = Hazardous Products Regulations
	IATA = International Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
Non-Hazardous	This substance/mixture does not contain hazardous components

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



# **SAFETY DATA SHEET**

**PPV Positive Control** 

# Section 1. Identification

Product Identifier:	PPV Positive Control
Product code:	PC33452
Product Type:	Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
Emergency telephone number (with hours	CHEMTREC U.S. & Canada: 1-800-424-9300

# Section 2. Hazard Identification

Classification of the Substance or mixture:	Not a Hazardous Substance or Mixture
GHS label elements Hazard Pictograms: Signal Word: Hazard Statements:	No hazard pictogram required. No signal word required. No hazard statement(s) required
Precautionary statements: Prevention: Response:	No precautionary statement(s) required)

of operation):



# Section 2. Hazard Identification

Storage:Not applicable.Disposal:Not applicable.

# Section 3. Composition/information on ingredients

Substance/mixture:mixtureOther means ofNot Applicable

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First-aid measures

#### **Description of necessary first aid measures**

Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and
	lower eyelids. Check for and remove any contact lenses. Continue to rinse for at
	least 20 minutes. Get medical attention.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for
	breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,
	provide artificial respiration or oxygen by trained personnel. It may be dangerous
	to the person providing aid to give mouth-to-mouth resuscitation. Get medical
	attention if adverse health effects persist or are severe. If unconscious, place in
	recovery position and get medical attention immediately. Maintain an open
	airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact:	Flush contaminated skin with plenty of water. Get medical attention if symptoms
	occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion:	Wash out mouth with water. Remove dentures if any. If material has been
	swallowed and the exposed person feels sick as vomiting may be dangerous. Do
	not induce vomiting unless directed to do so by medical personnel. If vomiting
	occurs, the head should be kept low so that vomit does not enter the lungs. Get
	medical attention if adverse health effects persist or are severe. Never give
	anything by mouth to an unconscious person. If unconscious, place in recovery
	position and get medical attention immediately. Maintain an open airway. Loosen
	tight clothing such as a collar, tie, belt or waistband.



# Section 4. First-aid measures

#### Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact:	In case of contact with eyes, rinse out with water. Remove contact lenses.	
Inhalation:	If inhaled, move patient to fresh air.	
Skin contact:	In case of skin contact, rinse skin with water. Remove contaminated clothing.	
Ingestion:	In case of ingestion, do not induce vomiting. Drink water. Consult a doctor if feeling unwell.	

#### **Over-exposure signs/symptoms**

Eye contact:	Possible irritation
Inhalation:	Possible cough, possible irritation
Skin contact:	Possible irritation
Ingestion:	Possible stomach pains

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Not applicable
Specific treatments:	No data available
Protection of	
first-aiders:	No data available

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media** Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given. Specific hazards arising from the chemical: Not combustible. Ambient fire may liberate hazardous vapours Hazardous thermal decomposition products: None Special protective actions for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Special protective



#### equipment for

Section 6. Accidental release measures			
fire-fighters:	fire-fighters: In the event of fire, wear self-contained breathing apparatus.		
Personal precaution	s, protective equipment, and emergency procedures		
For non-emergency			
personnel:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.		
For emergency			
responders:	Advice for emergency responders: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures. For personal protection see section 8.		
Environmental			
precautions:	No special precautionary measures necessary		
Methods and materials for containment and cleaning up			
Small spill:	Dilute with water. Wipe up with absorbent pad.		
Large spill:	Observe possible material restrictions (see sections 7 and 10). Take up with liquid		
	absorbent material. Dispose of properly. Clean up affected area.		

# Section 7. Handling and storage

#### 

# Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits** 

Contains no substances with occupational exposure limit values

#### Appropriate engineering

controls:Not required.EnvironmentalNot required.exposure controls:Not required.



#### Individual protection measures Hygiene measures: No data available Eye/face protection:

Skin protection	
Hand protection:	Not required
Body protection:	Not required
Other skin	
protection:	Not required
Respiratory	
protection:	Not required

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### Appearance:

Physical State:	Liquid
Color:	Clear, colourless
Odor:	Not available.
Odor threshold:	Not available.
pH:	7
Melting point/	
freezing point:	Not applicable.
Boiling point, initial	
boiling point, and	
boiling range:	Not available.
Flash point:	Not applicable.
Evaporation rate:	Not available.
Flammability:	Not available.
Lower and upper	
explosion limit/	
flammability limit:	Not available.
Vapor pressure:	Not available.
Relative vapor	
density:	Not available.
Relative density:	Not available.
Solubility:	Miscible in water.
Partition coefficient:	Not applicable.
n-octanol/water	



Auto-ignition	
temperature:	Not available.
Decomposition	
temperature:	Not available.
Viscosity:	Not available.
Flow time	
(ISO 2431):	Not available.
Particle characteristic	<u>.s</u>
Median particle size:	Not applicable.

# Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: Possibility of	The product is stable.
,	Under normal conditions of storage and use, hazardous reactions will not occur. No specific data.
materials:	Reactive or incompatible with the following materials; oxidizing materials, acids and alkalis.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicology information

#### Information on toxicology effects

#### Acute toxicity

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Irritation/Corrosion

To the best of our knowledge, this mixture is not considered an irritant or corrosive.

#### **Sensitization**

There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

#### Reproductive toxicity

There is no data available.

**Teratogenicity** 



There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### Aspiration hazard

There is no data available.

#### Information on the

#### likely routes of

exposure:

Most likely routes of exposure are: Inhalation, Ingestion, skin contact. No hazards known for listed routes of exposure

#### Potential acute health effects

Eye contact:	No data available
Inhalation:	No data available
Skin contact:	No data available
Ingestion:	No data available

#### Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact:	No data available
Inhalation:	No data available
Skin contact:	No data available
Ingestion:	No data available

#### Delayed and immediate effects and chronic effects from short- and long-term exposure

Short term exposure		
Potential immediate		
effects:	No data available	
Potential delayed		
effects:	No data available	
Long term exposure		
Potential immediate		
effects:	No data available	
Potential delayed		
effects:	No data available	
Potential chronic health effects		
General:	No data available	
Carcinogenicity:	No data available	



Mutagenicity:No data availableReproductiveVo data availabletoxicity:No data available

#### Numerical measures of toxicity

#### Acute toxicity estimates

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Section 12. Ecological information

<u>Toxicity</u>	
There is no data available.	
Persistence and degradabilit	Y
There is no data available.	
<u>Mobility in soil</u>	
Soil/water partition	
coefficient (K <sub>oc</sub> ):	Not available.

**Other adverse effects:** No known significant effect or critical hazards.

# Section 13. Disposal considerations

# **Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



# Section 14. Transport information

	<b>TGD Classification</b>	DOT Classification (US)	IMGD	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper	-	-	-	-
shipping name				
Transport	-	-	-	-
hazard				
class(es)				
Packing group	-	-	-	-
Environmental	No.	No.	No.	No.
hazards				

AERG:	Not applicable.
Special precautions	
for user:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO instruments:	Not available.
instruments:	NUL avallable.

# Section 15. Regulatory information

<u>Canadian lists</u>				
Canadian NPRI:	The following components are listed: No listed components			
CEPA Toxic				
substances:	None of the components are listed.			
International regulation	<u>ons</u>			
Chemical Weapon Co	nvention List Schedules I, II, & III Chemicals			
Not listed				
Montreal Protocol				
Not listed				
Stockholm Convention on Persistent Organic Pollutants				
Not listed				
<b>Rotterdam Convention on Prior Informed Consent (PIC)</b>				
Not listed				
UNECE Aarhus Protocol on POPs and Heavy Metals				
Not Listed				



# Inventory list

Canada:

All components are listed or exempted.

# Section 16. Other information

<u>History</u>	
Date of issue/Date	
of revision:	09/09/2024
Date of previous	
issue:	12/15/2021
Version:	03
Prepared by:	Norgen Biotek Corp.
Key to abbreviations:	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	HPR = Hazardous Products Regulations
	IATA = International Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
Non-Hazardous	This substance/mixture does not contain hazardous components

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



# **SAFETY DATA SHEET**

**Nuclease-Free Water** 

# Section 1. Identification

Product Identifier: Product code: Product Type:	Nuclease-Free Water 28000 and Dx28000 Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: techsupport@norgenbiotek.com
<b>F</b>	

Emergency telephone number (with hours of operation): CHEMTREC U.S. & Canada: 1-800-424-9300

# Section 2. Hazard Identification

Classification of the Substance or mixture:	Not a Hazardous substance.
<u>GHS label elements</u> Hazard Pictograms: Signal Word: Hazard Statements:	No hazard pictogram required. No signal word required. No hazard statement(s) required
Precautionary statements: Prevention: Response:	No precautionary statement(s) required) Not applicable. Not applicable.



# Section 2. Hazard Identification

Storage:NoDisposal:No

Not applicable. Not applicable.

# Section 3. Composition/information on ingredients

Substance/mixture:Substance.Other means ofNot applicable.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First-aid measures

#### **Description of necessary first aid measures**

Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and	
	lower eyelids. Check for and remove any contact lenses. Continue to rinse for at	
	least 20 minutes. Get medical attention.	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for	
	breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,	
	provide artificial respiration or oxygen by trained personnel. It may be dangerous	
	to the person providing aid to give mouth-to-mouth resuscitation. Get medical	
	attention if adverse health effects persist or are severe. If unconscious, place in	
	recovery position and get medical attention immediately. Maintain an open	
	airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
Skin contact: Flush contaminated skin with plenty of water. Get medical attention if s		
	occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion:	Wash out mouth with water. Remove dentures if any. If material has been	
	swallowed and the exposed person feels sick as vomiting may be dangerous. Do	
	not induce vomiting unless directed to do so by medical personnel. If vomiting	
	occurs, the head should be kept low so that vomit does not enter the lungs. Get	
	medical attention if adverse health effects persist or are severe. Never give	
	anything by mouth to an unconscious person. If unconscious, place in recovery	
	position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	



# Section 4. First-aid measures

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact:	In case of contact with eyes, rinse out with water. Remove contact lenses.
Inhalation:	If inhaled, move patient to fresh air.
Skin contact:	In case of skin contact, rinse skin with water. Remove contaminated clothing.
Ingestion:	In case of ingestion, do not induce vomiting. Drink water. Consult a doctor if
	feeling unwell.

#### **Over-exposure signs/symptoms**

Eye contact:	Possible irritation.
Inhalation:	Possible cough, possible irritation.
Skin contact:	Possible irritation.
Ingestion:	Possible stomach pains.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Not applicable.
Specific treatments:	No data available.
Protection of	
first-aiders:	No data available.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

<u>Extinguishing media</u> Suitable extinguishin media:	<b>g</b> Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable	
extinguishing media:	For this substance no limitations of extinguishing agents are given.
Specific hazards	
arising from the	
chemical:	Not combustible. Ambient fire may liberate hazardous vapours.
Hazardous thermal decomposition	
products:	None.
Special protective actions for fire-fighters:	In the event of fire, wear self-contained breathing apparatus.
Special protective equipment for fire-fighters:	In the event of fire, wear self-contained breathing apparatus.



# Section 6. Accidental release measures

Personal precauti	ons, protective equipment, and emergency procedures
For non-emergen	су
personnel:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
For emergency	
responders:	Advice for emergency responders: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures. For personal protection see section 8.
Environmental	
precautions:	No special precautionary measures necessary.
Methods and mat	terials for containment and cleaning up
Small spill:	Dilute with water. Wipe up with absorbent pad.
Large spill:	Observe possible material restrictions (see sections 7 and 10). Take up with liquid absorbent material. Dispose of properly. Clean up affected area.

# Section 7. Handling and storage

Precautions for safe handlingProtective measures:For precautions see section 2.Advice on generaloccupationalhygiene:Wear appropriate PPE (if any) when handling.Conditions for safestorage, includingincompatibilities:No special storage conditions required. Keep tightly closed.

# Section 8. Exposure controls/personal protection

#### Control parameters

#### Occupational exposure limits

Contains no substances with occupational exposure limit values.

Appropriate engineering<br/>controls:Not required.Environmental<br/>exposure controls:Not required.

Individual protection measures Hygiene measures: No data available.



#### **Eye/face protection:** No data available.

Skin protection	
Hand protection:	Not required.
Body protection:	Not required.
Other skin	
protection:	Not required.
Respiratory	
protection:	Not required.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance:	
Physical State:	Liquid.
Color:	Colourless.
Odor:	Not available.
Odor threshold:	Not available.
pH:	Not available.
Melting point/	
freezing point:	Not applicable.
Boiling point, initial	
boiling point, and	
boiling range:	Not available.
Flash point:	Not applicable.
Evaporation rate:	Not available.
Flammability:	Not available.
Lower and upper	
explosion limit/	
flammability limit:	Not available.
Vapor pressure:	Not available.
Relative vapor	
density:	Not available.
Relative density:	Not available.
Solubility:	Miscible in water.
Partition coefficient:	Not applicable.
n-octanol/water	
Auto-ignition	
temperature:	Not available.



Decomposition		
temperature:	Not available.	
Viscosity:	Not available.	
Flow time		
(ISO 2431):	Not available.	
Particle characteristics		
Median particle size:	Not applicable.	

# Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: Possibility of	The product is stable.
hazardous reactions: Conditions to avoid: Incompatible	Under normal conditions of storage and use, hazardous reactions will not occur. No specific data.
materials:	Reactive or incompatible with the following materials; oxidizing materials, acids and alkalis.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicology information

#### Information on toxicology effects

#### Acute toxicity

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Irritation/Corrosion

To the best of our knowledge, this substance is not considered an irritant or corrosive.

#### **Sensitization**

There is no data available.

#### **Mutagenicity**

There is no data available.

#### Carcinogenicity

There is no data available.

#### **Reproductive toxicity**

There is no data available.

#### **Teratogenicity**

There is no data available.



#### Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

#### Aspiration hazard

There is no data available.

#### Information on the

likely routes of

exposure:

Most likely routes of exposure are: Inhalation, Ingestion, skin contact. No hazards known for listed routes of exposure.

#### Potential acute health effects

Eye contact:	No data available.
Inhalation:	No data available.
Skin contact:	No data available.
Ingestion:	No data available.

#### Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact:	No data available.
Inhalation:	No data available.
Skin contact:	No data available.
Ingestion:	No data available.

#### Delayed and immediate effects and chronic effects from short- and long-term exposure

#### Short term exposure Potential immediate No data available. effects: Potential delayed effects: No data available. Long term exposure Potential immediate No data available. effects: Potential delayed effects: No data available. Potential chronic health effects General: No data available. No data available. Carcinogenicity: Mutagenicity: No data available.



#### Reproductive

toxicity:

No data available.

#### Numerical measures of toxicity

#### Acute toxicity estimates

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# Section 12. Ecological information

Toxicity	
There is no data available.	
Persistence and degradabil	<u>ity</u>
There is no data available.	
<u>Mobility in soil</u>	
Soil/water partition	
coefficient (K <sub>oc</sub> ):	Not available.
Other adverse effects:	No known significant effect or critical hazards.

# Section 13. Disposal considerations

#### Disposal methods:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



# Section 14. Transport information

	<b>TGD Classification</b>	DOT Classification (US)	IMGD	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper	-	-	-	-
shipping name				
Transport	-	-	-	-
hazard				
class(es)				
Packing group	-	-	-	-
Environmental	No.	No.	No.	No.
hazards				

AERG:	Not applicable.
Special precautions	
for user:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO	
instruments:	Not available.

# Section 15. Regulatory information

<u>Canadian lists</u>	
Canadian NPRI:	The following components are listed: No listed components
CEPA Toxic	
substances:	None of the components are listed.
International regulation	uns
<b>Chemical Weapon Con</b>	vention List Schedules I, II, & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
<b>Stockholm Convention</b>	on Persistent Organic Pollutants
Not listed.	
<b>Rotterdam Convention</b>	on Prior Informed Consent (PIC)
Not listed.	
<b>UNECE</b> Aarhus Protoco	ol on POPs and Heavy Metals
Not listed.	
Inventory list	
Canada:	All components are listed or exempted.



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# Section 16. Other information

<u>History</u>	
Date of issue/Date	
of revision:	08/09/2024
Date of previous	
issue:	12/15/2021
Version:	03
Prepared by:	Norgen Biotek Corp.
Key to abbreviations:	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	HPR = Hazardous Products Regulations
	IATA = International Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogP <sub>OW</sub> = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
Non-Hazardous	This substance does not contain hazardous components

Notice to reader

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