

SAFETY DATA SHEET

MDx TaqMan 2X PCR Master Mix Dx

Section 1. Identification

Product Identifier:	MDx TaqMan 2X PCR Master Mix Dx
Product code:	DxTMM1000
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		
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

Suitab	ie extinguisning	B and a second se
media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuit	able	
exting	uishing media:	For this substance/mixture no limitations of extinguishing agents are given.
Specifi	ic hazards	
arising	; from the	
chemi	cal:	Not combustible. Ambient fire may liberate hazardous vapours
Hazard	lous thermal	
decom	position	
produc	cts:	None
Specia	l protective	
action	s for	
fire-fig	hters:	In the event of fire, wear self-contained breathing apparatus.
Specia	l protective	



equipment for

Section 6. Accidental release measures		
fire-fighters:		
-	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

<u>Control parameters</u> Occupational exposure limits		
<u></u>	Contains no substances with occupational exposure limit values	
Appropriate enginee	ring	
controls:	Not required.	
Environmental		
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.DecompositionNot available.temperature:Not available.Viscosity:Not available.Flow timeImage: Construct on the state on

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

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

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

No data available		
No data available		
No data available		
No data available		
Potential chronic health effects		
No data available		
No data available		
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

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

Section 13. Disposal considerations

Disposal methods:

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

	TGD Classification	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:	Transport within user's premises: 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	The following components are listed. No listed components	
substances:	None of the components are listed.	
International regulation	<u>ns</u>	
Chemical Weapon Con	vention List Schedules I, II, & III Chemicals	
Not listed		
Montreal Protocol		
Not listed		
Stockholm Convention on Persistent Organic Pollutants		
Not listed		
Rotterdam Convention	on Prior Informed Consent (PIC)	
Not listed		
UNECE Aarhus Protoco	l on POPs and Heavy Metals	
Not Listed		
Inventory list		
Canada:	All components are listed or exempted.	



Section 16. Other information

tory	
e of issue/Date	
evision: 09/	12/2024
e of previous	
ie: 12/	15/2021
sion: 03	
pared by: Nor	gen Biotek Corp.
to abbreviations: ATE	= Acute Toxicity Estimate
BCF	= Bioconcentration Factor
GHS	5 = Globally Harmonized System of Classification and Labelling of Chemicals
HPF	R = Hazardous Products Regulations
IATA	A = International Ait Transport Association
IBC	= Intermediate Bulk Container
IME	DG = International Maritime Dangerous Goods
Log	Pow = logarithm of the octanol/water partition coefficient
MA	RPOL = International Convention for the Prevention of Pollution From Ships,
197	3 as modified by the Protocol of 1978 (Marpol = marine pollution)
SGG	G = Segregation Group
UN	= United Nations
sion: 03 pared by: Nor to abbreviations: ATE BCF GHS HPF IATA IBC IME Log MA 197 SGG	gen Biotek Corp. = Acute Toxicity Estimate = Bioconcentration Factor S = Globally Harmonized System of Classification and Labelling of Chemicals R = Hazardous Products Regulations A = International Ait Transport Association = Intermediate Bulk Container OG = International Maritime Dangerous Goods Pow = logarithm of the octanol/water partition coefficient RPOL = International Convention for the Prevention of Pollution From Ships 3 as modified by the Protocol of 1978 (Marpol = marine pollution) G = Segregation Group

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

HSV-2 Primer & Probe Mix Dx

Section 1. Identification

Product Identifier:	HSV-2 Primer & Probe Mix Dx
Product code:	DxTM32401
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		
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 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 timeIso 2431):(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 hea	<u>lth effects</u>
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 _{oc}):	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

	TGD Classification	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:	Transport within user's premises: 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	<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			
Rotterdam Convention on Prior Informed Consent (PIC)			
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:	09/10/2024
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.

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SAFETY DATA SHEET

HSV-2 Positive Control Dx

Section 1. Identification

Product Identifier:	HSV-2 Positive Control Dx - 200,000 copies/µL
Product code:	DxPC32402
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 he	alth 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

Suitable extinguishing	<i>J</i>
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			
ire-fighters: In the event of fire, wear self-contained breathing apparatus.			
Personal precautio	ns, protective equipment, and emergency procedures		
For non-emergency	У		
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 mate	erials 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 exposu	Occupational exposure limits			
	Contains no substances with occupational exposure limit values			
Appropriate engineering				
controls:	Not required.			
Environmental				
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.DecompositionNot available.temperature:Not available.Viscosity:Not available.Flow timeImage: Construct of the state of

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

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

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 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

<u>Toxicity</u>	
There is no data available.	
Persistence and degradabili	ity
There is no data available.	
<u>Mobility in soil</u>	
Soil/water partition	
coefficient (K _{oc}):	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

	TGD Classification	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:	Transport within user's premises: 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: CEPA Toxic	The following components are listed: No listed components
substances:	None of the components are listed.
International regulation	<u>ns</u>
Chemical Weapon Con	vention List Schedules I, II, & III Chemicals
Not listed	
Montreal Protocol	
Not listed	
Stockholm Convention	on Persistent Organic Pollutants
Not listed	
Rotterdam Convention	on Prior Informed Consent (PIC)
Not listed	
UNECE Aarhus Protoco	l 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:	09/10/2024
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
F	

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 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

<u>Extinguishing media</u> Suitable extinguishin media:	g 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
controls:Not required.Environmental
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 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.
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

<u>Toxicity</u>	
There is no data available.	
Persistence and degradabili	ity
There is no data available.	
<u>Mobility in soil</u>	
Soil/water partition	
coefficient (K _{oc}):	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

	TGD Classification	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:	Transport within user's premises: 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		
Chemical Weapon Con	vention List Schedules I, II, & III Chemicals		
Not listed.			
Montreal Protocol			
Not listed.			
Stockholm Convention on Persistent Organic Pollutants			
Not listed.			
Rotterdam Convention	on Prior Informed Consent (PIC)		
Not listed.			
UNECE 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 _{OW} = 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

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