

# **SAFETY DATA SHEET**

# **Giardia intestinalis Primer & Probe Mix**

# Section 1. Identification

Product Identifier:	Giardia intestinalis Primer & Probe Mix
Product code:	TM43851
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: <a href="mailto:techsupport@norgenbiotek.com">techsupport@norgenbiotek.com</a>
Emergency telephone	CHEMTREC
number (with hours	U.S. & Canada: 1-800-424-9300
of operation):	
Section 2. Hazard Ic	lentification

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)



# 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	

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

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

feeling unwell.

### 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	5
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	ons, protective equipment, and emergency procedures
For non-emergen	CY
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	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	
<b>Occupational exposu</b>	ire limits
	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 protectionHand protection:Not requiredBody protection:Not requiredOther skinprotection:protection:Not requiredRespiratoryprotection: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 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 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.



### <u>Teratogenicity</u>

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 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 degradability		
There is no data available.		
Mobility in soil		
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	Netavalabla
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:	09/05/2024
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**

# **Giardia intestinalis Positive Control**

# Section 1. Identification

Product Identifier:	Giardia intestinalis Positive Control
Product code:	PC43852
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 of operation):	CHEMTREC U.S. & Canada: 1-800-424-9300
Section 2. Hazard lo	dentification
Classification of the Substance or mixture:	Not a Hazardous Substance or Mixture

Hazard Pictograms:	No hazard pictogram required.
Signal Word:	No signal word required.
Hazard Statements:	No hazard statement(s) required

Precautionary statements:	No precautionary statement(s) required)	
Prevention:		
Response:		

**GHS** label elements



# 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 docto		
	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 applicableSpecific treatments:No data availableProtection ofNo data availablefirst-aiders:No data available

### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### Extinguishing media

## Suitable extinguishing

Suitable extinguishing	5
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, 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	
<b>Occupational exposu</b>	ire limits
	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 protectionHand protection:Not requiredBody protection:Not requiredOther skinprotection:protection:Not requiredRespiratoryNot required

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 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:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid: Incompatible	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.



### <u>Teratogenicity</u>

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

No data available	
No data available	
No data available	
No data available	
Potential chronic health effects	
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 degradability	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	Netavalabla
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	ons	
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 Protoc	ol 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:	09/05/2024
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 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:	<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 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 <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

Canadian lists		
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.		
UNECE Aarhus Protocol 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

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.