

# SAFETY DATA SHEET

## PLMVd Primer & Probe Mix

### Section 1. Identification

<b>Product Identifier:</b>	PLMVd Primer & Probe Mix
<b>Product code:</b>	TM64251
<b>Product Type:</b>	Liquid
<b>Supplier's details:</b>	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>
<b>Emergency telephone number (with hours of operation):</b>	CHEMTREC U.S. & Canada: 1-800-424-9300

### Section 2. Hazard Identification

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

## Section 2. Hazard Identification

**Storage:** Not applicable.  
**Disposal:** Not applicable.

## Section 3. Composition/information on ingredients

**Substance/mixture:** mixture  
**Other means of identification:** Not Applicable

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

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

## Section 4. First-aid measures

### Description of necessary first aid measures

**Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion:** Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section 4. First-aid measures

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

#### Potential acute health effects

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

#### Over-exposure signs/symptoms

<b>Eye contact:</b>	Possible irritation
<b>Inhalation:</b>	Possible cough, possible irritation
<b>Skin contact:</b>	Possible irritation
<b>Ingestion:</b>	Possible stomach pains

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

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

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

#### **Suitable extinguishing**

**media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable**

**extinguishing media:** For this substance/mixture no limitations of extinguishing agents are given.

#### **Specific hazards arising from the**

**chemical:** Not combustible. Ambient fire may liberate hazardous vapours

#### **Hazardous thermal decomposition**

**products:** None

#### **Special protective actions for**

**fire-fighters:** In the event of fire, wear self-contained breathing apparatus.

#### **Special protective**

equipment for

## Section 6. Accidental release measures

**fire-fighters:** In the event of fire, wear self-contained breathing apparatus.

### Personal precautions, 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.

#### **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:  
n-octanol/water** Not applicable.

**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:** The product is stable.  
**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.  
**Conditions to avoid:** No specific data.  
**Incompatible materials:** Reactive or incompatible with the following materials; oxidizing materials, acids and alkalis.  
**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11. Toxicology information**

**Information on toxicology effects**

**Acute toxicity**

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

**Irritation/Corrosion**

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

**Sensitization**

There is no data available.

**Mutagenicity**

There is no data available.

**Carcinogenicity**

There is no data available.

**Reproductive toxicity**

There is no data available.

**Teratogenicity**

There is no data available.

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

There is no data available.

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

There is no data available.

**Aspiration hazard**

There is no data available.

**Information on the  
likely routes of**

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

**Potential acute health effects**

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

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

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

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

**Short term exposure**

**Potential immediate effects:** No data available  
**Potential delayed effects:** No data available

**Long term exposure**

**Potential immediate effects:** No data available  
**Potential delayed effects:** No data available

**Potential chronic health effects**

**General:** No data available  
**Carcinogenicity:** No data available

**Mutagenicity:** No data available

**Reproductive toxicity:** No data available

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

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

## **Section 12. Ecological information**

### **Toxicity**

There is no data available.

### **Persistence and degradability**

There is no data available.

### **Mobility in soil**

#### **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	IATA
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-
<b>Packing group</b>	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.

**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**

**Canadian lists**

**Canadian NPRI:** The following components are listed: No listed components

**CEPA Toxic**

**substances:** None of the components are listed.

**International regulations**

**Chemical Weapon Convention 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.

<b>Section 16. Other information</b>
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**History**

**Date of issue/Date**

**of revision:** 09/09/2024

**Date of previous**

**issue:** 12/15/2021

**Version:** 03

**Prepared by:** Norgen Biotek Corp.

**Key to abbreviations:** ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 HPR = Hazardous Products Regulations  
 IATA = International Air 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/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

## PLMVd Positive Control

### Section 1. Identification

<b>Product Identifier:</b>	PLMVd Positive Control
<b>Product code:</b>	PC64252
<b>Product Type:</b>	Liquid
<b>Supplier's details:</b>	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>
<b>Emergency telephone number (with hours of operation):</b>	CHEMTREC U.S. & Canada: 1-800-424-9300

### Section 2. Hazard Identification

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

## Section 2. Hazard Identification

**Storage:** Not applicable.  
**Disposal:** Not applicable.

## Section 3. Composition/information on ingredients

**Substance/mixture:** mixture  
**Other means of identification:** Not Applicable

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

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

## Section 4. First-aid measures

### Description of necessary first aid measures

**Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion:** Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section 4. First-aid measures

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

#### Potential acute health effects

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

#### Over-exposure signs/symptoms

<b>Eye contact:</b>	Possible irritation
<b>Inhalation:</b>	Possible cough, possible irritation
<b>Skin contact:</b>	Possible irritation
<b>Ingestion:</b>	Possible stomach pains

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

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

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

#### **Suitable extinguishing**

**media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable**

**extinguishing media:** For this substance/mixture no limitations of extinguishing agents are given.

#### **Specific hazards arising from the**

**chemical:** Not combustible. Ambient fire may liberate hazardous vapours

#### **Hazardous thermal decomposition**

**products:** None

#### **Special protective actions for**

**fire-fighters:** In the event of fire, wear self-contained breathing apparatus.

#### **Special protective**

equipment for

## **Section 6. Accidental release measures**

**fire-fighters:** In the event of fire, wear self-contained breathing apparatus.

### **Personal precautions, 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.

#### **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:  
n-octanol/water** Not applicable.

**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:** The product is stable.  
**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.  
**Conditions to avoid:** No specific data.  
**Incompatible materials:** Reactive or incompatible with the following materials; oxidizing materials, acids and alkalis.  
**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11. Toxicology information**

**Information on toxicology effects**

**Acute toxicity**

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

**Irritation/Corrosion**

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

**Sensitization**

There is no data available.

**Mutagenicity**

There is no data available.

**Carcinogenicity**

There is no data available.

**Reproductive toxicity**

There is no data available.

**Teratogenicity**



There is no data available.

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

There is no data available.

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

There is no data available.

**Aspiration hazard**

There is no data available.

**Information on the  
likely routes of**

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

**Potential acute health effects**

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

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

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

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

**Short term exposure**

**Potential immediate effects:** No data available  
**Potential delayed effects:** No data available

**Long term exposure**

**Potential immediate effects:** No data available  
**Potential delayed effects:** No data available

**Potential chronic health effects**

**General:** No data available  
**Carcinogenicity:** No data available

**Mutagenicity:** No data available

**Reproductive toxicity:** No data available

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

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

## **Section 12. Ecological information**

### **Toxicity**

There is no data available.

### **Persistence and degradability**

There is no data available.

### **Mobility in soil**

#### **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	IATA
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-
<b>Packing group</b>	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.

**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**

**Canadian lists**

**Canadian NPRI:**

The following components are listed: No listed components

**CEPA Toxic**

**substances:**

None of the components are listed.

**International regulations**

**Chemical Weapon Convention 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.

<b>Section 16. Other information</b>
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**History**

**Date of issue/Date**

**of revision:** 09/09/2024

**Date of previous**

**issue:** 12/15/2021

**Version:** 03

**Prepared by:** Norgen Biotek Corp.

**Key to abbreviations:** ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 HPR = Hazardous Products Regulations  
 IATA = International Air 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/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

<b>Product Identifier:</b>	<b>Nuclease-Free Water</b>
<b>Product code:</b>	<b>28000 and Dx28000</b>
<b>Product Type:</b>	<b>Liquid</b>
<b>Supplier's details:</b>	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>
<b>Emergency telephone number (with hours of operation):</b>	CHEMTREC U.S. & Canada: 1-800-424-9300

### Section 2. Hazard Identification

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

**Section 2. Hazard Identification**

**Storage:** Not applicable.  
**Disposal:** Not applicable.

**Section 3. Composition/information on ingredients**

**Substance/mixture:** Substance.  
**Other means of identification:** Not 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 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 precautions, 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.

#### **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:  
n-octanol/water** Not applicable.

**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:** 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 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 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**

**Toxicity**

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**

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

**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**

**Canadian lists**

**Canadian NPRI:** The following components are listed: No listed components

**CEPA Toxic**

**substances:** None of the components are listed.

**International regulations**

**Chemical Weapon Convention 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**

**History**

**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 Air 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**

<b>Classification</b>	<b>Justification</b>
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.