

# SAFETY DATA SHEET

## Binding Buffer J

### Section 1. Identification

<b>Product Identifier:</b>	<b>Binding Buffer J</b>
<b>Product code:</b>	<b>90140</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 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**

**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 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:** 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 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.

**Section 16. Other information**

**History**

**Date of issue/Date**

**of revision:** 09/17/2024

**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  
 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**

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

## Elution Buffer G

### Section 1. Identification

<b>Product Identifier:</b>	Elution Buffer G
<b>Product code:</b>	90009, 90010
<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:** 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 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.

**Section 16. Other information**

**History**

**Date of issue/Date**

**of revision:** 09/17/2024

**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  
 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**

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

## Wash Solution M

### Section 1. Identification

<b>Product Identifier:</b>	Wash Solution M
<b>Product code:</b>	90100, 90101
<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:** 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 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.

**Section 16. Other information**

**History**

**Date of issue/Date**

**of revision:** 09/17/2024

**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  
 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**

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

## Endotoxin Removal Solution

### Section 1. Identification

**Product Identifier:** Endotoxin Removal Solution  
**Product code:** 90147  
**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: [techsupport@norgenbiotek.com](mailto:techsupport@norgenbiotek.com)

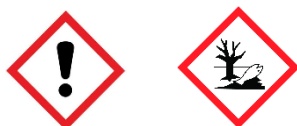
**Emergency telephone number (with hours of operation):** CHEMTREC  
U.S. & Canada: 1-800-424-9300

### Section 2. Hazard Identification

**Classification of the Substance or mixture:** SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
AQUATIC HAZARD (ACUTE) - Category 2  
AQUATIC HAZARD (LONG-TERM) - Category 2

#### GHS label elements

#### Hazard Pictograms:



**Signal Word:** Warning  
**Hazard Statements:** H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

**Prevention:** P280 - Wear protective gloves. Wear eye or face protection.  
P273 - Avoid release to the environment.  
P264 - Wash thoroughly after handling.

**Response:** P391 - Collect spillage.  
P362 + P364 - Take off contaminated clothing and wash it before reuse.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.  
P332 + P313 - If skin irritation occurs: Get medical advice or attention.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 - If eye irritation persists: Get medical advice or attention.

**Storage:** Not applicable.

**Disposal:** P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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

**Substance/mixture:** Mixture  
**Other means of identification:** N/A

Ingredient name	% (w/w)	CAS number
Poly(ethylene glycol) <i>p</i> -(1,1,3,3-tetramethylbutyl)phenyl ester	10-30	9036-19-5

Ranges id listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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:** Causes serious eye irritation.  
**Inhalation:** No known significant effects or critical hazards.  
**Skin contact:** Causes skin irritation.  
**Ingestion:** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact:** Adverse symptoms may include the following:  
Pain or Irritation  
Watering  
Redness  
**Inhalation:** No known significant effects or critical hazards.  
**Skin contact:** Adverse symptoms may include the following:  
Irritation  
Redness  
**Ingestion:** No known significant effects or critical hazards.

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

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

#### **Protection of**

**first-aiders:** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**See toxicological information (Section 11)**

## **Section 5. Fire-fighting measures**

### **Extinguishing media**

#### **Suitable extinguishing**

**media:** Use an extinguishing agent suitable for the surrounding fire.

#### **Unsuitable**

**extinguishing media:** None known.

#### **Specific hazards**

#### **arising from the**

#### **chemical:**

This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

#### **Hazardous thermal**

#### **decomposition**

#### **products:**

Decomposition products may include the following materials: Carbon dioxide, Carbon monoxide, Halogenated Compounds, Metal/Metal Oxides

#### **Special protective**

#### **actions for**

#### **fire-fighters:**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

#### **Special protective**

#### **equipment for**

#### **fire-fighters:**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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

### **Personal precautions, protective equipment, and emergency procedures**

#### **For non-emergency**

#### **personnel:**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### **For emergency**

#### **responders:**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental**

**precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

**Methods and materials for containment and cleaning up**

**Small spill:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**Section 7. Handling and storage****Precautions for safe handling**

**Protective measures:** Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational**

**hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including incompatibilities:**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**Section 8. Exposure controls/personal protection****Control parameters****Occupational exposure limits**

None.

**Appropriate engineering**

**controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental**

**exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

**Individual protection measures**

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

- Body protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection:** Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## 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:** 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**

Product/ingredient name	Result	Species	Dose	Exposure
Poly(ethylene glycol) <i>p</i> -(1,1,3,3-tetramethylbutyl)phenyl ester	LD50 Oral	Rat	4190 mg/kg	-

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Poly(ethylene glycol) <i>p</i> -(1,1,3,3-tetramethylbutyl)phenyl ester	Eyes – Mild Irritant	Rabbit	-	15 mg	-

**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:** Routes of entry anticipated: Oral, Dermal, Inhalation

**Potential acute health effects**

**Eye contact:** Causes serious eye irritation.  
**Inhalation:** No known significant effects or critical hazards.  
**Skin contact:** Causes skin irritation.  
**Ingestion:** No known significant effects or critical hazards.

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

**Eye contact:** Adverse symptoms may include the following:  
Pain or Irritation  
Watering  
Redness  
**Inhalation:** No known significant effects or critical hazards.  
**Skin contact:** Adverse symptoms may include the following:  
Irritation  
Redness  
**Ingestion:** No known significant effects or critical hazards.

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

**Short term exposure**

**Potential immediate**

**effects:** No known significant effects or critical hazards.

**Potential delayed**

**effects:** No known significant effects or critical hazards.

**Long term exposure**

**Potential immediate**

**effects:** No known significant effects or critical hazards.

**Potential delayed**

**effects:** No known significant effects or critical hazards.

**Potential chronic health effects**

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive**

**toxicity:** No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Poly(ethylene glycol) <i>p</i> -(1,1,3,3-tetramethylbutyl)phenyl ester	500	N/A	N/A	N/A	N/A

**Section 12. Ecological information**

**Toxicity**

Product/ingredient name	Result	Species	Exposure
Poly(ethylene glycol) <i>p</i> -(1,1,3,3-tetramethylbutyl)phenyl ester	Acute LC50 10800 µg/L Fresh Water	Crustaceans – Pandalus montagui (Adult)	48 Hours
	Acute LC50 8600 µg/L Fresh Water	Daphnia – Daphnia magna (Neonate)	48 Hours
	Acute LC50 7200 µg/L Fresh Water	Fish – Oncorhynchus mykiss	96 Hours

**Persistence and degradability**

There is no data available.

**Bioaccumulative Potential**

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>TDG Classification</b>	<b>DOT Classification (US)</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	UN3082	UN3082	UN3082	UN3082
<b>UN proper shipping name</b>	ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(ethylene glycol) <i>p</i> -(1,1,3,3-tetramethylbutyl) phenyl ester)	ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(ethylene glycol) <i>p</i> -(1,1,3,3-tetramethylbutyl) phenyl ester)	ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(ethylene glycol) <i>p</i> -(1,1,3,3-tetramethylbutyl) phenyl ester)	ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(ethylene glycol) <i>p</i> -(1,1,3,3-tetramethylbutyl) phenyl ester)
<b>Transport hazard class(es)</b>	9 	9 	9 	9 
<b>Packing group</b>	III	III	III	III
<b>Environmental hazards</b>	Yes	Yes	Yes	Yes

**AERG:** 171

**Additional Information:**

**TDG Classification:** Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.

**DOT Classification:** Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.

**IMDG:** This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IATA:** This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**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: Poly(ethylene glycol)*p*-(1,1,3,3-tetramethylbutyl)phenyl ester

**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:** 09/17/2024  
**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  
 Log<sub>Pow</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>
SKIN CORROSION/IRRITATION - Category 2	Calculation Method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation Method
AQUATIC HAZARD (ACUTE) - Category 2	Calculation Method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation Method

**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

## Protein Neutralizer EF

### Section 1. Identification

<b>Product Identifier:</b>	<b>Protein Neutralizer EF</b>
<b>Product code:</b>	<b>24124, T001, T007</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 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**

- 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**

**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:**

**Skin protection**

<b>Hand protection:</b>	Not required
<b>Body protection:</b>	Not required
<b>Other skin protection:</b>	Not required
<b>Respiratory protection:</b>	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:**

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

	<b>TGD Classification</b>	<b>DOT Classification (US)</b>	<b>IMGD</b>	<b>IATA</b>
<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:** 09/03/2024

**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/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

## Wash Solution N

### Section 1. Identification

<b>Product Identifier:</b>	Wash Solution N
<b>Product code:</b>	T011, 90132, 90133
<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:** 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 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.

**Section 16. Other information**

**History**

**Date of issue/Date**

**of revision:** 09/17/2024

**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  
 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**

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

## Binding Buffer N

### Section 1. Identification

<b>Product Identifier:</b>	<b>Binding Buffer N</b>
<b>Product code:</b>	<b>T011, 20045, 90162</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 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**

- 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 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:** 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 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**

	<b>TGD Classification</b>	<b>DOT Classification (US)</b>	<b>IMGD</b>	<b>IATA</b>
<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:** 09/17/2024

**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  
 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**

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

## Wash Solution NIP

### Section 1. Identification

<b>Product Identifier:</b>	Wash Solution NIP
<b>Product code:</b>	90159, 90161
<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:** 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 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
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	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**

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**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  
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 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**

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

## Wash Solution CIP

### Section 1. Identification

**Product Identifier:** Wash Solution CIP  
**Product code:** 90036, 90037, 90038, 90045, 90155, 90156  
**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: [techsupport@norgenbiotek.com](mailto:techsupport@norgenbiotek.com)

**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 or Mixture

#### GHS label elements

**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:**

## 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**

#### **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:

**Skin protection**

<b>Hand protection:</b>	Not required
<b>Body protection:</b>	Not required
<b>Other skin protection:</b>	Not required
<b>Respiratory protection:</b>	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:**

<b>Physical State:</b>	Liquid
<b>Color:</b>	Clear, colourless
<b>Odor:</b>	Not available.
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	3.5
<b>Melting point/ freezing point:</b>	Not applicable.
<b>Boiling point, initial boiling point, and boiling range:</b>	Not available.
<b>Flash point:</b>	Not applicable.
<b>Evaporation rate:</b>	Not available.
<b>Flammability:</b>	Not available.
<b>Lower and upper explosion limit/ flammability limit:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Relative vapor density:</b>	Not available.
<b>Relative density:</b>	Not available.
<b>Solubility:</b>	Miscible in water.
<b>Partition coefficient: n-octanol/water</b>	Not applicable.
<b>Auto-ignition temperature:</b>	Not available.
<b>Decomposition temperature:</b>	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
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	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:** 08/30/2024

**Date of previous**

**issue:** 12/15/2021

**Version:** 03

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