

## **SAFETY DATA SHEET**

**Binding Buffer J** 

### Section 1. Identification

Product Identifier:	Binding Buffer J
Product code:	90140
Product Type:	Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
Emergency telephone number (with hours	CHEMTREC U.S. & Canada: 1-800-424-9300

### Section 2. Hazard Identification

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

of operation):



### Section 2. Hazard Identification

Storage:Not applicable.Disposal:Not applicable.

### Section 3. Composition/information on ingredients

Substance/mixture:MixtureOther means ofNot Applicable

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

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

### Section 4. First-aid measures

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

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



### Section 4. First-aid measures

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

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

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

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

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

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

### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

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



### equipment for

Section 6. Accidental release measures		
fire-fighters:	In the event of fire, wear self-contained breathing apparatus.	
Personal 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 materi	als for containment and cleaning up	
Small spill:	Dilute with water. Wipe up with absorbent pad.	
Large spill:	Observe possible material restrictions (see sections 7 and 10). Take up with liquid	
	absorbent material. Dispose of properly. Clean up affected area.	

### Section 7. Handling and storage

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

### Section 8. Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** 

Contains no substances with occupational exposure limit values

### Appropriate engineering

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



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

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

### Section 9. Physical and chemical properties and safety characteristics

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

### Appearance:

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



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

### Section 10. Stability and reactivity

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

### Section 11. Toxicology information

### Information on toxicology effects

### Acute toxicity

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

### Irritation/Corrosion

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

### **Sensitization**

There is no data available.

### Mutagenicity

There is no data available.

### Carcinogenicity

There is no data available.

### **Reproductive toxicity**

There is no data available.

**Teratogenicity** 



There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

### Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

### Information on the

### likely routes of

exposure:

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

### Potential acute health effects

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

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

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

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

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



Mutagenicity:No data availableReproductiveVo data availabletoxicity:No data available

### Numerical measures of toxicity

### Acute toxicity estimates

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

### Section 12. Ecological information

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

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

### Section 13. Disposal considerations

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



### Section 14. Transport information

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

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

### Section 15. Regulatory information

Canadian lists

Canadian NPRI:	The following components are listed: No listed components
CEPA Toxic	
substances:	None of the components are listed.
International regulation	<u>ons</u>
<b>Chemical Weapon Cor</b>	vention List Schedules I, II, & III Chemicals
Not listed	
Montreal Protocol	
Not listed	
Stockholm Convention	<u>n on Persistent Organic Pollutants</u>
Not listed	
<b>Rotterdam Convention</b>	n on Prior Informed Consent (PIC)
Not listed	
<b>UNECE Aarhus Protoco</b>	ol 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 Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

### Procedure used to derive the classification

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

#### Notice to reader

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

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



### **SAFETY DATA SHEET**

**Elution Buffer G** 

### Section 1. Identification

Product Identifier:	Elution Buffer G
Product code:	90009, 90010
Product Type:	Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
Emergency telephone	CHEMTREC

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

### 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:	
Posponso:	

**Response:** 



### Section 2. Hazard Identification

Storage:Not applicable.Disposal:Not applicable.

### Section 3. Composition/information on ingredients

Substance/mixture:MixtureOther means ofNot Applicable

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

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

### Section 4. First-aid measures

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

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



### Section 4. First-aid measures

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

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

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

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

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

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

### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

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



### equipment for

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

### Section 7. Handling and storage

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

### Section 8. Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** 

Contains no substances with occupational exposure limit values

### Appropriate engineering

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



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

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

### Section 9. Physical and chemical properties and safety characteristics

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

### Appearance:

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



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

### Section 10. Stability and reactivity

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

### Section 11. Toxicology information

### Information on toxicology effects

### Acute toxicity

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

### Irritation/Corrosion

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

### **Sensitization**

There is no data available.

### Mutagenicity

There is no data available.

### Carcinogenicity

There is no data available.

### Reproductive toxicity

There is no data available.

**Teratogenicity** 



There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

### Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

### Information on the

### likely routes of

exposure:

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

### Potential acute health effects

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

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

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

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

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



Mutagenicity:No data availableReproductiveVo data availabletoxicity:No data available

### Numerical measures of toxicity

### Acute toxicity estimates

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

### Section 12. Ecological information

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

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

### Section 13. Disposal considerations

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



### Section 14. Transport information

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

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

### Section 15. Regulatory information

Canadian lists

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



### Section 16. Other information

### <u>History</u>

Date of issue/Date	
of revision:	09/17/2024
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 Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

### Procedure used to derive the classification

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

#### Notice to reader

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

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



## **SAFETY DATA SHEET**

Wash Solution M

### Section 1. Identification

Product Identifier:	Wash Solution M
Product code:	90100, 90101
Product Type:	Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
Emergency telephone number (with hours	CHEMTREC U.S. & Canada: 1-800-424-9300

### of operation):

### Section 2. Hazard Identification

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



### Section 2. Hazard Identification

Storage:Not applicable.Disposal:Not applicable.

### Section 3. Composition/information on ingredients

Substance/mixture:MixtureOther means ofNot Applicable

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

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

### Section 4. First-aid measures

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

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



### Section 4. First-aid measures

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

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

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

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

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

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

### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

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



### equipment for

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

### Section 7. Handling and storage

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

### Section 8. Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** 

Contains no substances with occupational exposure limit values

### Appropriate engineering

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



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

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

### Section 9. Physical and chemical properties and safety characteristics

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

### Appearance:

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



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

### Section 10. Stability and reactivity

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

### Section 11. Toxicology information

### Information on toxicology effects

### Acute toxicity

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

### Irritation/Corrosion

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

### Sensitization

There is no data available.

### Mutagenicity

There is no data available.

### Carcinogenicity

There is no data available.

### **Reproductive toxicity**

There is no data available.

**Teratogenicity** 



There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

### Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

### Information on the

likely routes of

exposure:

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

### Potential acute health effects

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

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

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

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

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



Mutagenicity:No data availableReproductiveVo data availabletoxicity:No data available

### Numerical measures of toxicity

### Acute toxicity estimates

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

### Section 12. Ecological information

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

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

### Section 13. Disposal considerations

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



### Section 14. Transport information

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

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

### Section 15. Regulatory information

Canadian lists

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



### Section 16. Other information

### **History**

<b>i</b>	
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 Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

### Procedure used to derive the classification

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

#### Notice to reader

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

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



## **SAFETY DATA SHEET**

**Endotoxin Removal Solution** 

### Section 1. Identification

Product Identifier: Product code: Product Type:	Endotoxin Removal Solution 90147 Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>

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

### Section 2. Hazard Identification

<b>Classification of the</b>	
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
<b>GHS label elements</b>	
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-	10-30	9036-19-5
tetramethylbutyl)phenyl ester		

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<br/>lower eyelids. Check for and remove any contact lenses. Continue to rinse for at<br/>least 20 minutes. Get medical attention.
- Inhalation:Remove victim to fresh air and keep at rest in a position comfortable for<br/>breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,<br/>provide artificial respiration or oxygen by trained personnel. It may be dangerous<br/>to the person providing aid to give mouth-to-mouth resuscitation. Get medical<br/>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	g
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 mater	ials 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 exposu	re limits
None.	
Appropriate enginee	ring
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:	Not applicable.
n-octanol/water	



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

#### Section 10. Stability and reactivity

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

#### Section 11. Toxicology information

#### Information on toxicology effects

Result	Species	Dose	Exposure
LD50 Oral	Rat	4190 mg/kg	-

#### Irritation/Corrosion

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

#### **Sensitization**

There is no data available.

#### **Mutagenicity**

There is no data available.

#### **Carcinogenicity**

There is no data available.



Reproductive toxicit	v			
There is no data available.				
Teratogenicity				
There is no data avai	lable			
	toxicity (single exposure)			
There is no data avai				
	toxicity (repeated exposure)			
There is no data avai				
Aspiration hazard				
There is no data avai	lable.			
Information on the				
likely routes of				
exposure:	Routes of entry anticipated: Oral, Dermal, Inhalation			
Potential acute heal				
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.			
•	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 immed	iate effects and chronic effects from short- and long-term exposure			
Short term exposure				
Potential immediate				
effects:	No known significant effects or critical hazards.			
	No known significant effects of childar 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 he	-			
General:	No known significant effects or critical hazards.			
General.				



**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)p-(1,1,3,3- tetramethylbutyl)phenyl ester	500	N/A	N/A	N/A	N/A

#### Section 12. Ecological information

#### Toxicity

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

#### Persistence and degradability

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

#### Section 13. Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration



or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### Section 14. Transport information

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

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

#### Section 15. Regulatory information

<u>Canadian lists</u>	
Canadian NPRI:	The following components are listed: Poly(ethylene glycol) <i>p</i> -(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

<u>History</u>	
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 Ait Transport Association
  - IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogP<sub>OW</sub> = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978 (Marpol = marine pollution)

- SGG = Segregation Group
- UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
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

Product Identifier: Product code: Product Type:	Protein Neutralizer EF 24124, T001, T007 Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
	CHENTREC

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
<u>GHS label elements</u> Hazard Pictograms: Signal Word: Hazard Statements:	No hazard pictogram required. No signal word required. No hazard statement(s) required
<u>Precautionary statements:</u> Prevention: Response:	No precautionary statement(s) required)



#### Section 2. Hazard Identification

Storage: Disposal: Not applicable.

**bosal:** Not applicable.

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

Substance/mixture:MixtureOther means ofNot Applicable

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

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

#### Section 4. First-aid measures

#### Description of necessary first aid measures

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



#### Section 4. First-aid measures

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

#### Potential acute health effects

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

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

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

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

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

See toxicological information (Section 11)

#### Section 5. Fire-fighting measures

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5 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
For this substance/mixture no limitations of extinguishing agents are given.
Not combustible. Ambient fire may liberate hazardous vapours
None
In the event of fire, wear self-contained breathing apparatus.
In the event of fire, wear self-contained breathing apparatus.



#### Section 6. Accidental release measures

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

#### Section 7. Handling and storage

#### Section 8. Exposure controls/personal protection

#### Control parameters

#### Occupational exposure limits

Contains no substances with occupational exposure limit values

#### Appropriate engineering

controls: Not required.

#### Environmental

**exposure controls:** Not required.

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



# Skin protectionHand protection:Not requiredBody protection:Not requiredOther skinprotection:protection:Not requiredRespiratoryprotection:protection:Not required

#### Section 9. Physical and chemical properties and safety characteristics

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

#### Appearance:

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

Not available. Viscosity: 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

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

#### Section 13. Disposal considerations

#### **Disposal methods:**

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



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Section 14. Transport information				
	<b>TGD Classification</b>	DOT Classification (US)	IMGD	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper	-	-	-	-
shipping name				
Transport	-	-	-	-
hazard				
class(es)				
Packing group	-	-	-	-
Environmental	No.	No.	No.	No.
hazards				

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

#### Section 15. Regulatory information

<b>a</b> 11 11 .			
<u>Canadian lists</u>			
Canadian NPRI:	The following components are listed: No listed components		
CEPA Toxic			
substances:	None of the components are listed.		
International regulat	ions		
Chemical Weapon Co	nvention List Schedules I, II, & III Chemicals		
Not listed			
<b>Montreal Protocol</b>			
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.		



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#### Section 16. Other information

<u>History</u>	
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 C	
	HPR = Hazardous Products Regulations
	IATA = International Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

#### Procedure used to derive the classification

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

Notice to reader

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

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### **SAFETY DATA SHEET**

Wash Solution N

#### Section 1. Identification

Product Identifier:	Wash Solution N
Product code:	T011, 90132, 90133
Product Type:	Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
Emergency telephone	CHEMTREC

U.S. & Canada: 1-800-424-9300

#### Section 2. Hazard Identification

number (with hours

of operation):

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



#### Section 2. Hazard Identification

Storage:Not applicable.Disposal:Not applicable.

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

Substance/mixture:MixtureOther means ofNot Applicable

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

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

#### Section 4. First-aid measures

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

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



#### Section 4. First-aid measures

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

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

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

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

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

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

#### See toxicological information (Section 11)

#### Section 5. Fire-fighting measures

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



#### equipment for

Section 6. Accidental release measures		
fire-fighters:	In the event of fire, wear self-contained breathing apparatus.	
Personal precaution	ns, 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 mater	rials for containment and cleaning up	
Small spill:	Dilute with water. Wipe up with absorbent pad.	
Large spill:	Observe possible material restrictions (see sections 7 and 10). Take up with liquid	
	absorbent material. Dispose of properly. Clean up affected area.	

#### Section 7. Handling and storage

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

#### Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits** 

Contains no substances with occupational exposure limit values

#### Appropriate engineering

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



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

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

#### Section 9. Physical and chemical properties and safety characteristics

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

#### Appearance:

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



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

#### Section 10. Stability and reactivity

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

#### Section 11. Toxicology information

#### Information on toxicology effects

#### Acute toxicity

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

#### Irritation/Corrosion

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

#### **Sensitization**

There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

#### Reproductive toxicity

There is no data available.

**Teratogenicity** 



There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

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

There is no data available.

Aspiration hazard

There is no data available.

#### Information on the

likely routes of

exposure:

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

#### Potential acute health effects

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

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

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

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

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



Mutagenicity:No data availableReproductiveVo data availabletoxicity:No data available

#### Numerical measures of toxicity

#### Acute toxicity estimates

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

#### Section 12. Ecological information

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

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

#### Section 13. Disposal considerations

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



#### Section 14. Transport information

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

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

#### Section 15. Regulatory information

Canadian lists

Canadian NPRI:	The following components are listed: No listed components		
CEPA Toxic			
substances:	None of the components are listed.		
International regulation	uns		
<b>Chemical Weapon Con</b>	vention List Schedules I, II, & III Chemicals		
Not listed			
Montreal Protocol			
Not listed			
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 Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

#### Procedure used to derive the classification

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

#### Notice to reader

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

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



### **SAFETY DATA SHEET**

**Binding Buffer N** 

#### Section 1. Identification

Product Identifier:	Binding Buffer N
Product code:	T011, 20045, 90162
Product Type:	Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
Emergency telephone	CHEMTREC

U.S. & Canada: 1-800-424-9300

#### Section 2. Hazard Identification

number (with hours

of operation):

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



#### Section 2. Hazard Identification

Storage:Not applicable.Disposal:Not applicable.

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

Substance/mixture:MixtureOther means ofNot Applicable

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

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

#### Section 4. First-aid measures

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

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



#### Section 4. First-aid measures

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

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

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

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

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

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

#### See toxicological information (Section 11)

#### Section 5. Fire-fighting measures

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



#### equipment for

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

#### Section 7. Handling and storage

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

#### Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits** 

Contains no substances with occupational exposure limit values

#### Appropriate engineering

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



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

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

#### Section 9. Physical and chemical properties and safety characteristics

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

#### Appearance:

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



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

#### Section 10. Stability and reactivity

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

#### Section 11. Toxicology information

#### Information on toxicology effects

#### Acute toxicity

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

#### Irritation/Corrosion

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

#### **Sensitization**

There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

#### **Reproductive toxicity**

There is no data available.

**Teratogenicity** 



There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

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

There is no data available.

Aspiration hazard

There is no data available.

#### Information on the

#### likely routes of

exposure:

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

#### Potential acute health effects

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

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

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

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

Short term exposure	
Potential immediate	
effects:	No data available
Potential delayed	
effects:	No data available
Long term exposure	
Potential immediate	
effects:	No data available
Potential delayed	
effects:	No data available
Potential chronic hea	<u>lth effects</u>
General:	No data available
Carcinogenicity:	No data available



Mutagenicity:No data availableReproductiveVo data availabletoxicity:No data available

#### Numerical measures of toxicity

#### Acute toxicity estimates

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

#### Section 12. Ecological information

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

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

#### Section 13. Disposal considerations

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



#### Section 14. Transport information

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

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

#### Section 15. Regulatory information

Canadian lists

Canadian NPRI:	The following components are listed: No listed components
CEPA Toxic	
substances:	None of the components are listed.
International regulation	uns de la companya de
<b>Chemical Weapon Con</b>	vention List Schedules I, II, & III Chemicals
Not listed	
Montreal Protocol	
Not listed	
<b>Stockholm Convention</b>	on Persistent Organic Pollutants
Not listed	
<b>Rotterdam Convention</b>	n on Prior Informed Consent (PIC)
Not listed	
<b>UNECE Aarhus Protoco</b>	ol 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 Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

#### Procedure used to derive the classification

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

#### Notice to reader

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

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



# **SAFETY DATA SHEET**

# Wash Solution NIP

# Section 1. Identification

Product Identifier:	Wash Solution NIP
Product code:	90159, 90161
Product Type:	Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
Emergency telephone number (with hours	CHEMTREC U.S. & Canada: 1-800-424-9300

# Section 2. Hazard Identification

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

of operation):



# Section 2. Hazard Identification

Storage:Not applicable.Disposal:Not applicable.

# Section 3. Composition/information on ingredients

Substance/mixture:MixtureOther means ofNot Applicable

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

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

# Section 4. First-aid measures

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

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



# Section 4. First-aid measures

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

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

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

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

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

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

# See toxicological information (Section 11)

# Section 5. Fire-fighting measures

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



# equipment for

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

# Section 7. Handling and storage

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

# Section 8. Exposure controls/personal protection

# Control parameters

**Occupational exposure limits** 

Contains no substances with occupational exposure limit values

# Appropriate engineering

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



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

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

# Section 9. Physical and chemical properties and safety characteristics

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

#### Appearance:

Liquid
Clear, colourless
Not available.
Not available.
Not available
Not applicable.
Not available.
Not applicable.
Not available.
Not available.
Not available.
Not available.
Not available.
Not available.
Miscible in water.
Not applicable.



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

# Section 10. Stability and reactivity

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

# Section 11. Toxicology information

# Information on toxicology effects

#### Acute toxicity

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

#### Irritation/Corrosion

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

#### **Sensitization**

There is no data available.

# Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

#### Reproductive toxicity

There is no data available.

**Teratogenicity** 



There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

# Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

# Information on the

#### likely routes of

exposure:

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

# Potential acute health effects

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

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

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

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

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



Mutagenicity:No data availableReproductiveVo data availabletoxicity:No data available

#### Numerical measures of toxicity

#### Acute toxicity estimates

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

# Section 12. Ecological information

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

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

# Section 13. Disposal considerations

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



# Section 14. Transport information

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

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

# Section 15. Regulatory information

Canadian lists

Canadian NPRI:	The following components are listed: No listed components		
CEPA Toxic			
substances:	None of the components are listed.		
International regulation	uns		
<b>Chemical Weapon Con</b>	vention List Schedules I, II, & III Chemicals		
Not listed			
Montreal Protocol			
Not listed			
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 Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

#### Procedure used to derive the classification

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

#### Notice to reader

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

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



# **SAFETY DATA SHEET**

Wash Solution CIP

# Section 1. Identification

Product Identifier: Product code: Product Type:	Wash Solution CIP 90036, 90037, 90038, 90045, 90155, 90156 Liquid
Supplier's details:	Norgen Biotek Corporation 3430 Schmon Parkway Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362 E-mail: <u>techsupport@norgenbiotek.com</u>
Emergency telephone	CHEMTREC

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
<u>GHS label elements</u> Hazard Pictograms: Signal Word: Hazard Statements:	No hazard pictogram required. No signal word required. No hazard statement(s) required
Precautionary statements: Prevention: Response:	No precautionary statement(s) required)



# Section 2. Hazard Identification

Storage: I Disposal: I

Not applicable. Not applicable.

# Section 3. Composition/information on ingredients

Substance/mixture:MixtureOther means ofNot Applicable

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

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

# Section 4. First-aid measures

#### Description of necessary first aid measures

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



# Section 4. First-aid measures

# Most important symptoms/effects, acute and delayed

# Potential acute health effects

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

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

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

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

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

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

<u>Extinguishing media</u> Suitable extinguishin media:	<b>g</b> Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable	
extinguishing media:	For this substance/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 precaution	s, protective equipment, and emergency procedures
For non-emergency	
personnel:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
For emergency	
responders:	Advice for emergency responders: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures. For personal protection see section 8.
Environmental	
precautions:	No special precautionary measures necessary
Methods and materi	als for containment and cleaning up
Small spill:	Dilute with water. Wipe up with absorbent pad.
Large spill:	Observe possible material restrictions (see sections 7 and 10). Take up with liquid absorbent material. Dispose of properly. Clean up affected area.

# Section 7. Handling and storage

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

# Section 8. Exposure controls/personal protection

# Control parameters

#### Occupational exposure limits

Contains no substances with occupational exposure limit values

# Appropriate engineering

controls: Not required.

#### Environmental

**exposure controls:** Not required.

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



# Skin protectionHand protection:Not requiredBody protection:Not requiredOther skinprotection:protection:Not requiredRespiratoryprotection:protection:Not required

# Section 9. Physical and chemical properties and safety characteristics

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

#### Appearance:

Color:Clear, colourlessOdor:Not available.Odor threshold:Not available.pH:3.5Melting point/Freezing point:freezing point, initialNot applicable.boiling point, andNot available.boiling range:Not available.Flash point:Not available.Flash point:Not available.Flammability:Not available.Flammability:Not available.Flammability limit:Not available.Vapor pressure:Not available.Relative vaporNot available.Gensity:Not available.Solubility:Not available.Partition coefficient:Not available.n-octanol/waterNot available.Auto-ignitionNot available.temperature:Not available.DecompositionNot available.	Physical State:	Liquid
Odor threshold:Not available.pH:3.5Melting point/freezing point:Not applicable.Boiling point, initialboiling point, andboiling range:Not available.Flash point:Not available.Flash point:Not available.Flash point:Not available.Flammability:Not available.Lower and upperNot available.explosion limit/Not available.flammability limit:Not available.Vapor pressure:Not available.Relative vaporNot available.density:Not available.Solubility:Not available.Partition coefficient:Not applicable.n-octanol/waterNot available.Auto-ignitionNot available.temperature:Not available.DecompositionNot available.	Color:	Clear, colourless
pH:3.5Melting point/ freezing point:Not applicable.Boiling point, initial boiling point, andNot available.boiling range:Not available.Flash point:Not available.Flash point:Not available.Flammability:Not available.Flammability:Not available.Flammability limit:Not available.flammability limit:Not available.Kelative vaporNot available.density:Not available.Relative density:Not available.Solubility:Not available.Partition coefficient:Not applicable.n-octanol/waterNot applicable.Auto-ignitionNot available.temperature:Not available.DecompositionNot available.	Odor:	Not available.
Melting point/ freezing point:Not applicable.Boiling point, initial boiling point, and boiling range:Not available.Flash point:Not available.Flash point:Not available.Flash point:Not available.Flammability:Not available.Lower and upper explosion limit/Not available.flammability limit:Not available.Vapor pressure:Not available.Relative vaporNot available.density:Not available.Solubility:Not available.Partition coefficient:Not applicable.n-octanol/waterNot available.Auto-ignition temperature:Not available.	Odor threshold:	Not available.
freezing point:Not applicable.Boiling point, initialNot available.Boiling point, andNot available.boiling range:Not available.Flash point:Not applicable.Evaporation rate:Not available.Flammability:Not available.Lower and upperNot available.explosion limit/Not available.flammability limit:Not available.Vapor pressure:Not available.Relative vaporNot available.density:Not available.Solubility:Not available.Partition coefficient:Not applicable.n-octanol/waterNot applicable.Auto-ignitionNot available.DecompositionNot available.	pH:	3.5
Boiling point, initial boiling point, and boiling range:Not available.Flash point:Not applicable.Flash point:Not available.Flash point:Not available.Evaporation rate:Not available.Flammability:Not available.Lower and upper explosion limit/Not available.flammability limit:Not available.Vapor pressure:Not available.Relative vaporNot available.density:Not available.Relative density:Not available.Solubility:Miscible in water.Partition coefficient:Not applicable.n-octanol/waterNot available.Auto-ignitionNot available.temperature:Not available.	Melting point/	
boiling point, andboiling range:Not available.Flash point:Not applicable.Evaporation rate:Not available.Flammability:Not available.Flammability:Not available.Lower and upperexplosion limit/flammability limit:Not available.flammability limit:Not available.Vapor pressure:Not available.density:Not available.Relative vaporNot available.density:Not available.Solubility:Not available.Partition coefficient:Not applicable.n-octanol/waterNot applicable.Auto-ignitionKenavilable.temperature:Not available.	freezing point:	Not applicable.
boiling range:Not available.Flash point:Not applicable.Flash point:Not available.Evaporation rate:Not available.Flammability:Not available.Lower and upperexplosion limit/flammability limit:Not available.Vapor pressure:Not available.Relative vaporNot available.density:Not available.Solubility:Not available.Partition coefficient:Not applicable.n-octanol/waterNot applicable.Auto-ignitionNot available.DecompositionNot available.	Boiling point, initial	
Flash point:Not applicable.Evaporation rate:Not available.Evaporation rate:Not available.Flammability:Not available.Lower and upperNot available.explosion limit/Not available.flammability limit:Not available.Vapor pressure:Not available.Relative vaporNot available.density:Not available.Relative density:Not available.Solubility:Miscible in water.Partition coefficient:Not applicable.n-octanol/waterNot available.Auto-ignitionNot available.temperature:Not available.	boiling point, and	
Evaporation rate:Not available.Flammability:Not available.Lower and upperexplosion limit/flammability limit:Not available.flammability limit:Not available.Vapor pressure:Not available.Relative vaporNot available.density:Not available.Solubility:Not available.Partition coefficient:Not applicable.n-octanol/waterNot applicable.Auto-ignitionNot available.temperature:Not available.DecompositionNot available.	boiling range:	Not available.
Flammability:Not available.Lower and upperexplosion limit/flammability limit:Not available.Vapor pressure:Not available.Relative vaporNot available.density:Not available.Relative density:Not available.Solubility:Miscible in water.Partition coefficient:Not applicable.n-octanol/waterNot available.Auto-ignitionNot available.DecompositionNot available.	Flash point:	Not applicable.
Lower and upper explosion limit/ flammability limit: Not available. Vapor pressure: Not available. Relative vapor density: Not available. Relative density: Not available. Solubility: Not available. Solubility: Not available. Partition coefficient: Not applicable. n-octanol/water Auto-ignition temperature: Not available.	Evaporation rate:	Not available.
explosion limit/ flammability limit:Not available.Vapor pressure:Not available.Vapor pressure:Not available.Relative vaporNot available.density:Not available.Relative density:Not available.Solubility:Miscible in water.Partition coefficient:Not applicable.n-octanol/waterNot available.Auto-ignitionNot available.temperature:Not available.DecompositionNot available.	Flammability:	Not available.
flammability limit:Not available.Vapor pressure:Not available.Relative vaporNot available.density:Not available.Relative density:Not available.Solubility:Miscible in water.Partition coefficient:Not applicable.n-octanol/waterNot available.Auto-ignitionNot available.temperature:Not available.DecompositionNot available.	Lower and upper	
Vapor pressure:Not available.Relative vaporNot available.density:Not available.Relative density:Not available.Solubility:Miscible in water.Partition coefficient:Not applicable.n-octanol/waterNot available.Auto-ignitionNot available.temperature:Not available.DecompositionNot available.	explosion limit/	
Relative vapordensity:Not available.Relative density:Not available.Relative density:Miscible in water.Solubility:Miscible in water.Partition coefficient:Not applicable.n-octanol/waterAuto-ignitiontemperature:Not available.DecompositionVot available.	flammability limit:	Not available.
density:Not available.Relative density:Not available.Solubility:Miscible in water.Partition coefficient:Not applicable.n-octanol/waterNot available.Auto-ignitionKot available.temperature:Not available.DecompositionKot available.	Vapor pressure:	Not available.
Relative density:Not available.Solubility:Miscible in water.Partition coefficient:Not applicable.n-octanol/waterAuto-ignitionAuto-ignitionNot available.DecompositionNot available.	Relative vapor	
Solubility:Miscible in water.Partition coefficient:Not applicable.n-octanol/waterNot available.Auto-ignitionNot available.DecompositionImage: Composition	density:	Not available.
Partition coefficient:Not applicable.n-octanol/waterAuto-ignitionAuto-ignitionNot available.DecompositionImage: Composition	Relative density:	Not available.
n-octanol/water Auto-ignition temperature: Not available. Decomposition	Solubility:	Miscible in water.
Auto-ignitiontemperature:Not available.Decomposition	Partition coefficient:	Not applicable.
temperature:Not available.Decomposition	n-octanol/water	
Decomposition	Auto-ignition	
-	temperature:	Not available.
temperature: Not available	Decomposition	
	temperature:	Not available.



Not available. Viscosity: 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 hea	<u>Ith effects</u>
General:	No data available
Carcinogenicity:	No data available
Mutagenicity:	No data available
Reproductive	
toxicity:	No data available



# Numerical measures of toxicity

#### Acute toxicity estimates

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

# Section 12. Ecological information

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

# Section 13. Disposal considerations

# **Disposal methods:**

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



Section 14. Transport information						
	<b>TGD Classification</b>	DOT Classification (US)	IMGD	IATA		
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.		
UN proper	-	-	-	-		
shipping name						
Transport	-	-	-	-		
hazard						
class(es)						
Packing group	-	-	-	-		
Environmental	No.	No.	No.	No.		
hazards						

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

# Section 15. Regulatory information

<u>Canadian lists</u>				
Canadian NPRI:	The following components are listed: No listed components			
CEPA Toxic	PA 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.			



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# Section 16. Other information

<u>History</u>	
Date of issue/Date	
of revision:	08/30/2024
Date of previous	
issue:	12/15/2021
Version:	03
Prepared by:	Norgen Biotek Corp.
Key to abbreviations:	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	HPR = Hazardous Products Regulations
	IATA = International Ait Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
	SGG = Segregation Group
	UN = United Nations

#### Procedure used to derive the classification

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

Notice to reader

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

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