

SAFETY DATA SHEET

Solution A

Section 1. Identification

Product Identifier: Solution A

Product code: Dx27014

Product Type: Liquid

Supplier's details: Norgen Biotek Corporation

3430 Schmon Parkway

Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362

E-mail: techsupport@norgenbiotek.com

Emergency telephone

number (with hours

of operation):

CHEMTREC

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

Section 2. Hazard Identification

Classification of the

Substance or mixture: Not a Hazardous Substance or Mixture

GHS label elements

Hazard Pictograms: No hazard pictogram required. **Signal Word:** No signal word required.

Hazard Statements: No hazard statement(s) required

Precautionary statements: No precautionary statement(s) required)

Prevention: Response:



Section 2. Hazard Identification

Storage: Not applicable. Disposal: Not applicable.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Other means of

Tel: 1-866-667-4362

identification: Not Applicable

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

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

Section 4. First-aid measures

Description of necessary first aid measures

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Continue to rinse for at

least 20 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Flush contaminated skin with plenty of water. Get medical attention if symptoms

occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.



Section 4. First-aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: In case of contact with eyes, rinse out with water. Remove contact lenses.

Inhalation: If inhaled, move patient to fresh air.

Skin contact: In case of skin contact, rinse skin with water. Remove contaminated clothing. **Ingestion:** In case of ingestion, do not induce vomiting. Drink water. Consult a doctor if

feeling unwell.

Over-exposure signs/symptoms

Eye contact: Possible irritation

Inhalation: Possible cough, possible irritation

Skin contact: Possible irritation

Ingestion: Possible stomach pains

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

Notes to physician: Not applicable

Specific treatments: No data available

Protection of

first-aiders: No data available

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media: Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable

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

Specific hazards arising from the

chemical: Not combustible. Ambient fire may liberate hazardous vapours

Hazardous thermal decomposition

products: None

Special protective

actions for

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

Special protective



equipment for

Section 6. Accidental release measures

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

Personal precautions, protective equipment, and emergency procedures

For non-emergency

personnel: Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate

the danger area, observe emergency procedures, consult an expert. For personal

protection see section 8.

For emergency

responders: Advice for emergency responders: Do not breathe vapors, aerosols. Evacuate the

danger area, observe emergency procedures. For personal protection see section

8.

Environmental

precautions: No special precautionary measures necessary

Methods and materials for containment and cleaning up

Small spill: Dilute with water. Wipe up with absorbent pad.

Large spill: Observe possible material restrictions (see sections 7 and 10). Take up with liquid

absorbent material. Dispose of properly. Clean up affected area.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: For precautions see section 2.

Advice on general occupational

hygiene: Wear appropriate PPE (if any) when handling.

Conditions for safe storage, including

incompatibilities: No special storage conditions required. Keep tightly closed.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Contains no substances with occupational exposure limit values

Appropriate engineering

controls: Not required.

Environmental

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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, with Black/Grey Precipitate

Odor: Not available.
Odor threshold: Not available.
pH: Not available.

Melting point/

freezing point: Not applicable.

Boiling point, initial boiling point, and

boiling range: Not available.

Flash point: Not applicable.

Evaporation rate: Not available.

Flammability: Not available.

Lower and upper explosion limit/

flammability limit: Not available. Vapor pressure: Not available.

Relative vapor

density: Not available.
 Relative density: Not available.
 Solubility: Miscible in water.
 Partition coefficient: Not applicable.

n-octanol/water





Auto-ignition

temperature: Not available.

Decomposition

temperature: Not available. **Viscosity:** Not available.

Flow time

(ISO 2431): Not available.

Particle 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 availableInhalation:No data availableSkin contact:No data availableIngestion:No data available

Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact:No data availableInhalation:No data availableSkin contact:No data availableIngestion:No data available

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

Short term exposure

Potential immediate

effects: No data available

Potential delayed

effects: No data available

Long term exposure
Potential immediate

effects: No data available

Potential delayed

effects: No data available

Potential chronic health effects

General: No data available
Carcinogenicity: No data available





Mutagenicity: No data available

Reproductive

toxicity: No data available

Numerical measures of toxicity

Acute toxicity estimates

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

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Mobility in soil

Soil/water partition

coefficient (Koc): Not available.

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

Section 13. Disposal considerations

Disposal methods:

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



Section 14. Transport information

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

AERG: Not applicable.

Special precautions

for user: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to

do in the event of an accident or spillage.

Transport in bulk according to IMO

instruments: Not available.

Section 15. Regulatory information

Canadian lists

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

CEPA Toxic

substances: None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II, & III Chemicals

Not listed

Montreal Protocol

Not listed

Stockholm Convention on Persistent Organic Pollutants

Not listed

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed

UNECE Aarhus Protocol on POPs and Heavy Metals

Not Listed

Inventory list

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Canada: All components are listed or exempted.





Section 16. Other information

<u>History</u>

Date of issue/Date

of revision: 09/19/2024

Date of previous

issue: 12/15/2021

Version: 03

Prepared by: Norgen Biotek Corp.

Key to abbreviations: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations

IATA = International Ait Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogP_{OW} = logarithm of the octanol/water partition coefficient

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

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

SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

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

Notice to reader

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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

Solution B

Section 1. Identification

Product Identifier: Solution B
Product code: Dx27015
Product Type: Liquid

Supplier's details: Norgen Biotek Corporation

3430 Schmon Parkway

Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362

E-mail: techsupport@norgenbiotek.com

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: ACUTE TOXICITY (oral) - Category 4

ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
AQUATIC HAZARD (LONG-TERM) - Category 3

GHS label elements

Hazard Pictograms:

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Signal Word: Warning

Hazard Statements: H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if

inhaled.

H412 - Harmful to aquatic life with long lasting effects.





Precautionary statements:

Prevention: P280 - Wear protective gloves and protective clothing.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash thoroughly after handling.

Response: P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Call a POISON CENTER or doctor if you feel

unwell.

P301 + P312, P330 - IF SWALLOWED: Call a POISON CENTER or doctor if

you feel unwell. Rinse mouth.

P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you

feel unwell. Wash with plenty of water.

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

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identification: N/A

Ingredient name	% (w/w)	CAS number	
Guanidinium thiocyanate	65-85	593-84-0	

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

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

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



Section 4. First-aid measures

Description of necessary first aid measures

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Continue to rinse for at

least 20 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Flush contaminated skin with plenty of water. Get medical attention if symptoms

occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: Harmful if inhaled

Skin contact: Harmful in contact with skin

Ingestion: Harmful if swallowed

Over-exposure signs/symptoms

Eye contact: No known significant effects or critical hazards.
 Inhalation: No known significant effects or critical hazards.
 Skin contact: No known significant effects or critical hazards.
 Ingestion: No known significant effects or critical hazards.

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

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be

delayed. The exposed person may need to be kept under medical surveillance for

48 hours.

Specific treatments: No specific treatment.





Protection of

first-aiders: No action shall be taken involving any personal risk or without suitable training.

If it is suspected that fumes are still present, the rescuer should wear an

appropriate mask or self-contained breathing apparatus. It may be dangerous to

the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

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

Unsuitable

extinguishing media: None known.

Specific hazards arising from the

chemical: This material is harmful 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, Nitrogen oxides (NOx), Sulfur oxides, Metal oxide

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

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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.

Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and

mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via

a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach release

from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact

information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

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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. Use only with adequate ventilation. Wear

appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can

be hazardous. Do not reuse container.





Advice on general occupational

hygiene: Eating, drinking and smoking should be prohibited in areas where this material is

handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on

hygiene measures.

Conditions for safe storage, including incompatibilities:

Store in accordance with local regulations. Store in original container protected

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

use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None

Appropriate engineering

controls: Use only with adequate ventilation. Use process enclosures, local exhaust

ventilation or other engineering controls to keep worker exposure to airborne

contaminants below any recommended or statutory limits.

Environmental

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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: safety glasses

with side-shields.





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: 7

Melting point/

freezing point: Not applicable.

Boiling point, initial boiling point, and

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boiling range: Not available.Flash point: Not applicable.Evaporation rate: Not available.Flammability: Not available.



Lower and upper explosion limit/

flammability limit: Not available. Vapor pressure: Not available.

Relative vapor

density:Not available.Relative density:Not available.Solubility:Miscible in water.Partition coefficient:Not applicable.

n-octanol/water Auto-ignition

temperature: Not available.

Decomposition

temperature: Not available. **Viscosity:** Not available.

Flow time

(ISO 2431): Not available.

Particle characteristics

Median particle size: Not applicable.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its

ingredients.

Chemical stability: The product is stable.

Possibility of

hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible

materials: Reactive or incompatible with the following materials; oxidizing materials, acids

and alkalis.

Hazardous decomposition

products: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicology information

Information on toxicology effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Guanidinium thiocyanate	LD50 Oral	Rat	593 mg/kg	-





Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the

likely routes of

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

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: Harmful if inhaled

Skin contact: Harmful in contact with skin

Ingestion: Harmful if swallowed

Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact: No known significant effects or critical hazards.
 Inhalation: No known significant effects or critical hazards.
 Skin contact: No known significant effects or critical hazards.
 Ingestion: No known significant effects or critical hazards.

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

Short term exposure

Potential immediate

effects: No known significant effects or critical hazards.

Potential delayed

effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate

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effects: No known significant effects or critical hazards.



Potential delayed

effects: No known significant effects or critical hazards.

Potential chronic health effects

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Reproductive

toxicity: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Solution B	836.4	1551.5	N/A	15.5	N/A
Guanidinium thiocyanate	593	1100	N/A	11	N/A

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition

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coefficient (Koc): Not available.

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

Section 13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not

be of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material



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

Section 14. Transport information

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

AERG: Not applicable.

Special precautions

for user: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to

do in the event of an accident or spillage.

Transport in bulk according to IMO

instruments: Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI: None of the components are listed.

CEPA Toxic

substances: None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II, & III Chemicals

Not listed

Montreal Protocol

Tel: 1-866-667-4362

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: 09/06/2024

Date of previous

issue: 12/15/2021

Version: 03

Prepared by: Norgen Biotek Corp.

Key to abbreviations: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations

IATA = International Ait Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogP_{OW} = logarithm of the octanol/water partition coefficient

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

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

SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method

Notice to reader

Tel: 1-866-667-4362

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

Section 1. Identification

Product Identifier: Wash Solution Product code: 17204, Dx17204

Product Type: Liquid

Supplier's details: Norgen Biotek Corporation

3430 Schmon Parkway

Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362

E-mail: techsupport@norgenbiotek.com

Emergency telephone

number (with hours

of operation):

CHEMTREC

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

Section 2. Hazard Identification

Classification of the

Substance or mixture: Not a Hazardous Substance or Mixture

GHS label elements

Hazard Pictograms: No hazard pictogram required.

Signal Word: No signal word required.

Hazard Statements: No hazard statement(s) required

<u>Precautionary statements:</u> No precautionary statement(s) required)

Prevention: Response:





Section 2. Hazard Identification

Storage: Not applicable. Disposal: Not applicable.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Other means of

Tel: 1-866-667-4362

identification: Not Applicable

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

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

Section 4. First-aid measures

Description of necessary first aid measures

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Continue to rinse for at

least 20 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Flush contaminated skin with plenty of water. Get medical attention if symptoms

occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.



Section 4. First-aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: In case of contact with eyes, rinse out with water. Remove contact lenses.

Inhalation: If inhaled, move patient to fresh air.

Skin contact: In case of skin contact, rinse skin with water. Remove contaminated clothing. **Ingestion:** In case of ingestion, do not induce vomiting. Drink water. Consult a doctor if

feeling unwell.

Over-exposure signs/symptoms

Eye contact: Possible irritation

Inhalation: Possible cough, possible irritation

Skin contact: Possible irritation **Ingestion:** Possible stomach pains

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

Notes to physician: Not applicable Specific treatments: No data available

Protection of

first-aiders: No data available

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media: Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable

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

Specific hazards arising from the

chemical: Not combustible. Ambient fire may liberate hazardous vapours

Hazardous thermal decomposition

products: None

Special protective

actions for

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

Special protective equipment for

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





Section 6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

For non-emergency

personnel: Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate

the danger area, observe emergency procedures, consult an expert. For personal

protection see section 8.

For emergency

responders: Advice for emergency responders: Do not breathe vapors, aerosols. Evacuate the

danger area, observe emergency procedures. For personal protection see section

8.

Environmental

precautions: No special precautionary measures necessary

Methods and materials for containment and cleaning up

Small spill: Dilute with water. Wipe up with absorbent pad.

Large spill: Observe possible material restrictions (see sections 7 and 10). Take up with liquid

absorbent material. Dispose of properly. Clean up affected area.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: For precautions see section 2.

Advice on general occupational

hygiene: Wear appropriate PPE (if any) when handling.

Conditions for safe storage, including

incompatibilities: No special storage conditions required. Keep tightly closed.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Contains no substances with occupational exposure limit values

Appropriate engineering

controls: Not required.

Environmental

exposure controls: Not required.

Individual protection measures

Hygiene measures: No data available

Eye/face protection:





Skin protection

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, colourlessOdor:Not available.Odor threshold:Not available.

pH: 7.5

Melting point/

freezing point: Not applicable.

Boiling point, initial boiling point, and

boiling range: Not available.Flash point: Not applicable.Evaporation rate: Not available.Flammability: Not available.

Lower and upper explosion limit/

flammability limit: Not available. Vapor pressure: Not available.

Relative vapor

density: Not available.
 Relative density: Not available.
 Solubility: Miscible in water.
 Partition coefficient: Not applicable.

n-octanol/water Auto-ignition

temperature: Not available.

Decomposition

Tel: 1-866-667-4362

temperature: Not available.





Viscosity: Not available.

Flow time

(ISO 2431): Not available.

Particle characteristics

Median particle size: Not applicable.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its

ingredients.

Chemical stability: The product is stable.

Possibility of

hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible

materials: Reactive or incompatible with the following materials; oxidizing materials, acids

and alkalis.

Hazardous decomposition

products: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicology information

Information on toxicology effects

Acute toxicity

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

Irritation/Corrosion

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

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.





Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the

likely routes of

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

known for listed routes of exposure

Potential acute health effects

Eye contact:No data availableInhalation:No data availableSkin contact:No data availableIngestion:No data available

Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact:No data availableInhalation:No data availableSkin contact:No data availableIngestion:No data available

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

Short term exposure

Potential immediate

effects: No data available

Potential delayed

effects: No data available

Long term exposure

Potential immediate

effects: No data available

Potential delayed

effects: No data available

Potential chronic health effects

General: No data available
Carcinogenicity: No data available
Mutagenicity: No data available

Reproductive

toxicity: No data available





Numerical measures of toxicity

Acute toxicity estimates

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

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Mobility in soil

Soil/water partition

coefficient (K_{oc}): Not available.

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

Section 13. Disposal considerations

Disposal methods:

Tel: 1-866-667-4362

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



Section 14. Transport information

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

AERG: Not applicable.

Special precautions

for user: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to

do in the event of an accident or spillage.

Transport in bulk according to IMO

instruments: Not available.

Section 15. Regulatory information

Canadian lists

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

CEPA Toxic

substances: None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II, & III Chemicals

Not listed

Montreal Protocol

Not listed

Stockholm Convention on Persistent Organic Pollutants

Not listed

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed

UNECE Aarhus Protocol on POPs and Heavy Metals

Not Listed
Inventory list

Tel: 1-866-667-4362

Canada: All components are listed or exempted.





Section 16. Other information

History

Date of issue/Date

of revision: 08/30/2024

Date of previous

issue: 12/15/2021

Version: 03

Prepared by: Norgen Biotek Corp.

Key to abbreviations: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations

IATA = International Ait Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogP_{OW} = logarithm of the octanol/water partition coefficient

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

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

SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

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

Notice to reader

Tel: 1-866-667-4362

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SAFETY DATA SHEET

Elution Buffer

Section 1. Identification

Product Identifier: Elution Buffer
Product code: Dx17205, Dx26505

Product Type: Liquid

Supplier's details: Norgen Biotek Corporation

3430 Schmon Parkway

Thorold, ON Canada L2V 4Y6 Tel: (905) 227-8848 Fax: (905) 227-1061 Toll Free: 1-866-667-4362

E-mail: techsupport@norgenbiotek.com

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.

GHS label elements

Tel: 1-866-667-4362

Hazard Pictograms: No hazard pictogram required.

Signal Word: No signal word required.

Hazard Statements: No hazard statement(s) required

<u>Precautionary statements:</u> No precautionary statement(s) required)

Prevention: Not applicable. **Response:** Not applicable.





Section 2. Hazard Identification

Storage: Not applicable. Disposal: Not applicable.

Section 3. Composition/information on ingredients

Substance/mixture: Substance.

Other means of

Tel: 1-866-667-4362

identification: Not applicable.

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

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

Section 4. First-aid measures

Description of necessary first aid measures

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Continue to rinse for at

least 20 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Flush contaminated skin with plenty of water. Get medical attention if symptoms

occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.





Section 4. First-aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: In case of contact with eyes, rinse out with water. Remove contact lenses.

Inhalation: If inhaled, move patient to fresh air.

Skin contact: In case of skin contact, rinse skin with water. Remove contaminated clothing. **Ingestion:** In case of ingestion, do not induce vomiting. Drink water. Consult a doctor if

feeling unwell.

Over-exposure signs/symptoms

Eye contact: Possible irritation.

Inhalation: Possible cough, possible irritation.

Skin contact: Possible irritation. **Ingestion:** Possible stomach pains.

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

Notes to physician: Not applicable.

Specific treatments: No data available.

Protection of

first-aiders: No data available.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media: Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable

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

Specific hazards arising from the

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

Hazardous thermal decomposition

products: None.

Special protective

actions for

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

Special protective equipment for

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





Section 6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

For non-emergency

personnel: Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate

the danger area, observe emergency procedures, consult an expert. For personal

protection see section 8.

For emergency

responders: Advice for emergency responders: Do not breathe vapors, aerosols. Evacuate the

danger area, observe emergency procedures. For personal protection see section

8.

Environmental

precautions: No special precautionary measures necessary.

Methods and materials for containment and cleaning up

Small spill: Dilute with water. Wipe up with absorbent pad.

Large spill: Observe possible material restrictions (see sections 7 and 10). Take up with liquid

absorbent material. Dispose of properly. Clean up affected area.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: For precautions see section 2.

Advice on general occupational

hygiene: Wear appropriate PPE (if any) when handling.

Conditions for safe storage, including

incompatibilities: No special storage conditions required. Keep tightly closed.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Contains no substances with occupational exposure limit values.

Appropriate engineering

controls: Not required.

Environmental

exposure controls: Not required.

Individual protection measures

Hygiene measures: No data available.





Eye/face protection: No data available.

Skin protection

Hand protection: Not required. **Body protection:** Not required.

Other skin

protection: Not required.

Respiratory

protection: Not required.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance:

Physical State: Liquid.
Color: Colourless.
Odor: Not available.
Odor threshold: Not available.
ph: Not available.

Melting point/

freezing point: Not applicable.

Boiling point, initial boiling point, and

boiling range: Not available.

Flash point: Not applicable.

Evaporation rate: Not available.

Flammability: Not available.

Lower and upper explosion limit/

flammability limit: Not available. Vapor pressure: Not available.

Relative vapor

density: Not available.
 Relative density: Not available.
 Solubility: Miscible in water.
 Partition coefficient: Not applicable.

n-octanol/water Auto-ignition

Tel: 1-866-667-4362

temperature: Not available.





Decomposition

temperature: Not available. Viscosity: Not available.

Flow time

(ISO 2431): Not available.

Particle characteristics

Median particle size: Not applicable.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its

ingredients.

Chemical stability: The product is stable.

Possibility of

hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible

materials: Reactive or incompatible with the following materials; oxidizing materials, acids

and alkalis.

Hazardous decomposition

products: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicology information

Information on toxicology effects

Acute toxicity

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

Irritation/Corrosion

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

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

Tel: 1-866-667-4362

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

Tel: 1-866-667-4362

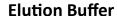
effects: No data available.

Potential chronic health effects

General: No data available.

Carcinogenicity: No data available.

Mutagenicity: No data available.





Reproductive

toxicity: No data available.

Numerical measures of toxicity

Acute toxicity estimates

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

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Mobility in soil

Soil/water partition

coefficient (K_{oc}): Not available.

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

Section 13. Disposal considerations

Disposal methods:

Tel: 1-866-667-4362

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



Section 14. Transport information

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

AERG: Not applicable.

Special precautions

for user: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to

do in the event of an accident or spillage.

Transport in bulk according to IMO

instruments: Not available.

Section 15. Regulatory information

Canadian lists

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

CEPA Toxic

substances: None of the components are listed.

International regulations

<u>Chemical Weapon Convention List Schedules I, II, & III Chemicals</u>

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

Tel: 1-866-667-4362

Canada: All components are listed or exempted.





Section 16. Other information

History

Date of issue/Date

of revision: 08/09/2024

Date of previous

issue: 12/15/2021

Version: 03

Prepared by: Norgen Biotek Corp.

Key to abbreviations: ATE = Acute Toxicity Estimate

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GHS = Globally Harmonized System of Classification and Labelling of Chemicals

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IATA = International Ait Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogP_{OW} = logarithm of the octanol/water partition coefficient

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

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

SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

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

Notice to reader

Tel: 1-866-667-4362

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