SAFETY DATA SHEET

Binding Buffer I



Section 1. Identification

GHS product identifier Binding Buffer I

Other means of identification **Product code**

Product type : Liquid.

Identified uses

Supplier/Manufacturer : 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. Hazards identification

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable. : None known.

Physical hazards not otherwise classified

(PHNOC)

Health hazards not

otherwise classified

(HHNOC)

: None known.





Section 3. Composition/information on ingredients

Substance/mixture

Other means of

identification

CAS number/other identifiers

CAS number : Not applicable.

Product code

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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 : Not applicable. Inhalation : Not applicable. **Skin contact** : Not applicable. Ingestion : Not applicable.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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.

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 : Treat symptomatically. **Specific treatments** : No specific treatment.

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.





Section 5. Fire-fighting measures

Hazardous thermal decomposition products : No specific data.

Special protective actions

for fire-fighters

: No special measures are required.

Special protective

equipment for fire-fighters

: No special protection is required.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

: 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 : No special requirements.

Methods and materials for containment and cleaning up

Spill

: Dilute with water and mop up if water-soluble or absorb with an inert dry material and

place in an appropriate waste disposal container.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

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.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations.

Section 8. Exposure controls/personal protection

Control parameters

Canada

Occupational exposure limits

No exposure limit value known.

Appropriate engineering

controls

: No special measures are required.

Environmental exposure

controls

: No special measures are required.

Individual protection measures

Hygiene measures : Follow good hygiene measure.

: Not required under normal conditions of use. Eye/face protection





Section 8. Exposure controls/personal protection

Skin protection

Hand protection : Not required under normal conditions of use. **Body protection** : Not required under normal conditions of use. Other skin protection : Not required under normal conditions of use. : Not required under normal conditions of use. **Respiratory protection**

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear.] Color Colorless. Odor : Odorless. : Not available. Odor threshold pН : Not available. **Melting point** : Not available. : Not available. **Boiling point** : Not applicable. Flash point **Evaporation rate** : Not available. : Not applicable. Flammability (solid, gas) Lower and upper explosive

(flammable) limits

: Not applicable.

: Not available. Vapor pressure Vapor density : Not available. **Relative density** : Not available. : Not available. Solubility Partition coefficient: n-: Not available.

octanol/water

: Not applicable. **Auto-ignition temperature Decomposition temperature** : Not available. **Viscosity** : Not available. Volatility : Not available. : 0 % (w/w) VOC (w/w)

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 : None known.





Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Carcinogenicity

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

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact
 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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 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 also 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 or critical hazards.

Long term exposure

Potential immediate

Potential delayed effects

: No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.





Section 11. Toxicological information

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

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 coefficient (K_{oc})

: There is no data available.

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

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. No specific disposal consideration.

Section 14. Transport information

	TDG	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards		No.	No.
Additional information	-	-	-



Section 14. Transport information

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 : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed. **Canada inventory** : All components are listed or exempted.

International lists National inventory

Australia : All components are listed or exempted. China : All components are listed or exempted. **Europe** : All components are listed or exempted. : All components are listed or exempted. Japan

Malaysia : Not determined.

New Zealand : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted.

Taiwan : Not determined.

Section 16. Other information

History

Date of issue Date of previous issue Version

Prepared by : KMK Regulatory Services Inc.

Notice to reader

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SAFETY DATA SHEET



Elution Buffer B

Section 1. Identification

GHS product identifier Elution Buffer B

Other means of identification

Product code

Product type : Liquid.

Identified uses

Supplier/Manufacturer : 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. Hazards identification

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable. : None known.

Physical hazards not otherwise classified

(PHNOC)

Health hazards not : None known.

otherwise classified

(HHNOC)





Section 3. Composition/information on ingredients

Substance/mixture

Other means of

identification

CAS number/other identifiers

CAS number : Not applicable.

Product code

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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 : Not applicable. Inhalation : Not applicable. **Skin contact** : Not applicable. Ingestion : Not applicable.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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.

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 : Treat symptomatically. Specific treatments : No specific treatment.

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.





Section 5. Fire-fighting measures

Hazardous thermal decomposition products : No specific data.

Special protective actions

for fire-fighters

: No special measures are required.

Special protective

equipment for fire-fighters

: No special protection is required.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

: 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 : No special requirements.

Methods and materials for containment and cleaning up

Spill

: Dilute with water and mop up if water-soluble or absorb with an inert dry material and

place in an appropriate waste disposal container.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

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.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations.

Section 8. Exposure controls/personal protection

Control parameters

Canada

Occupational exposure limits

No exposure limit value known.

Appropriate engineering

controls

: No special measures are required.

Environmental exposure

controls

: No special measures are required.

Individual protection measures

Hygiene measures : Follow good hygiene measure.

: Not required under normal conditions of use. Eye/face protection





Section 8. Exposure controls/personal protection

Skin protection

Hand protection
 Body protection
 Other skin protection
 Not required under normal conditions of use.
 Not required under normal conditions of use.
 Respiratory protection
 Not required under normal conditions of use.
 Not required under normal conditions of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear.] Color Colorless. Odor : Odorless. : Not available. Odor threshold pН : Not available. **Melting point** : Not available. : Not available. **Boiling point** : Not applicable. Flash point **Evaporation rate** : Not available. : Not applicable. Flammability (solid, gas) Lower and upper explosive : Not applicable.

Lower and upper explosiv (flammable) limits

Vapor pressure: Not available.Vapor density: Not available.Relative density: Not available.Solubility: Not available.Partition coefficient: n-: Not available.

octanol/water

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Not available.

Volatility : Not available.

VOC (w/w) : 0 % (w/w)

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: None known.





Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Carcinogenicity

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

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact
 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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 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 also 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

: No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.





Section 11. Toxicological information

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

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 coefficient (Koc)

: There is no data available.

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

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. No specific disposal consideration.

Section 14. Transport information

	TDG	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards		No.	No.
Additional information	-	-	-



Section 14. Transport information

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 : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed. **Canada inventory** : All components are listed or exempted.

International lists National inventory

Australia : All components are listed or exempted. China : All components are listed or exempted. **Europe** : All components are listed or exempted. : All components are listed or exempted. Japan

Malaysia : Not determined.

New Zealand : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted.

Taiwan : Not determined.

Section 16. Other information

History

Date of issue Date of previous issue Version

Prepared by : KMK Regulatory Services Inc.

Notice to reader

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SAFETY DATA SHEET



Lysis Additive A

Section 1. Identification

GHS product identifier Lysis Additive A

Other means of identification

Product code

Product type : Liquid.

Identified uses

Supplier/Manufacturer : 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. Hazards identification

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable. : None known.

Physical hazards not otherwise classified

(PHNOC)

Health hazards not : None known.

otherwise classified

(HHNOC)





Section 3. Composition/information on ingredients

Substance/mixture

Other means of

identification

CAS number/other identifiers

CAS number : Not applicable.

Product code

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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 : Not applicable. Inhalation : Not applicable. **Skin contact** : Not applicable. Ingestion : Not applicable.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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.

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 : Treat symptomatically. **Specific treatments** : No specific treatment.

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.





Section 5. Fire-fighting measures

Hazardous thermal decomposition products : No specific data.

Special protective actions

for fire-fighters

: No special measures are required.

Special protective equipment for fire-fighters

: No special protection is required.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

: 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 : No special requirements.

Methods and materials for containment and cleaning up

Spill

: Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

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.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations.

Section 8. Exposure controls/personal protection

Control parameters

Canada

Occupational exposure limits

No exposure limit value known.

Appropriate engineering

controls

: No special measures are required.

Environmental exposure

controls

: No special measures are required.

Individual protection measures

Hygiene measures : Follow good hygiene measure.

: Not required under normal conditions of use. Eye/face protection





Section 8. Exposure controls/personal protection

Skin protection

Hand protection : Not required under normal conditions of use. **Body protection** : Not required under normal conditions of use. Other skin protection : Not required under normal conditions of use. **Respiratory protection** : Not required under normal conditions of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear.] Color Colorless. Odor : Odorless. : Not available. Odor threshold pН : Not available. : Not available. **Melting point** Not available. **Boiling point** : Not applicable. Flash point **Evaporation rate** : Not available. : Not applicable. Flammability (solid, gas) Lower and upper explosive : Not applicable.

(flammable) limits

Vapor pressure Vapor density

: Not available. : Not available. **Relative density** : Not available. : Not available. Solubility Partition coefficient: n-: Not available.

octanol/water

: Not applicable. **Auto-ignition temperature Decomposition temperature** : Not available. **Viscosity** : Not available. Volatility : Not available. : 0 % (w/w) VOC (w/w)

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 : None known.





Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Carcinogenicity

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

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact
 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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 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 also chronic effects from short and long term exposure

Short term exposure

Potential immediate

Potential delayed effects

effects

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Long term exposure

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.





Section 11. Toxicological information

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

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 coefficient (K_{oc})

: There is no data available.

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

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. No specific disposal consideration.

Section 14. Transport information

	TDG	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards		No.	No.
Additional information	-	-	-



Section 14. Transport information

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 : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed. **Canada inventory** : All components are listed or exempted.

International lists National inventory

Australia : All components are listed or exempted. China : All components are listed or exempted. **Europe** : All components are listed or exempted. : All components are listed or exempted. Japan

Malaysia : Not determined.

New Zealand : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted.

Taiwan : Not determined.

Section 16. Other information

History

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SAFETY DATA SHEET

Lysis Buffer L



Section 1. Identification

GHS product identifier : Lysis Buffer L

Other means of identification

. .

Product code : 90153, 90098, 90103

Product type : Liquid.

Identified uses

Supplier/Manufacturer: 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. Hazards identification

Classification of the substance or mixture

: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 2

GHS label elements

Hazard pictograms





Signal word : Warning

Hazard statements : H319 - Causes serious eye irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

H401 - Toxic to aquatic life.

Precautionary statements

Prevention : P280 - Wear eye or face protection.

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

P264 - Wash hands thoroughly after handling.





Section 2. Hazards identification

Response : P314 - Get medical attention if you feel unwell.

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 attention.

Storage : Not applicable.

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

and international regulations.

Physical hazards not otherwise classified

(PHNOC)

: None known.

Health hazards not otherwise classified

(HHNOC)

: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification

.

CAS number/other identifiers

CAS number : Not applicable.

Product code : 90153, 90098, 90103

Ingredient name	%	CAS number
Cetrimonium bromide	1 - 5	57-09-0
Trometamol	1 - 5	77-86-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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. Cet medical attention

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. Maintain an open airway. Get medical

attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes.

Get medical attention following exposure or if feeling unwell. Wash clothing before

reuse. Clean shoes thoroughly before reuse.

Ingestion
 Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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. Never give anything by mouth to an unconscious

person. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed





Section 4. First aid measures

Potential acute health effects

Eve contact : Causes serious eye irritation.

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

Ingestion : Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eve contact : Adverse symptoms may include the following:

> pain or irritation watering redness

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

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

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products : This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

: No special measures are required.

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

: 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 nonemergency 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

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 breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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. Remove contaminated clothing and protective equipment before entering eating areas.

including any incompatibilities

Conditions for safe storage. : 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.

Section 8. Exposure controls/personal protection

Control parameters

Canada

Occupational exposure limit	<u>s</u>	TWA ((8 hours))	STEL (15 mins	5)	Ceilin	g		
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Sodium Chloride	US ACGIH	-	10 3	- -	-	-	- -	-	-		[a] [b]



Section 8. Exposure controls/personal protection

Form: [a]Inhalable fraction. [b]Respirable dust

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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.

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

: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state : Liquid. [Clear.]
Color : Colorless.
Odor : Not available.
Odor threshold : Not available.

pH : 8

Melting point: Not available.Boiling point: Not available.Flash point: Not applicable.Evaporation rate: Not available.Flammability (solid, gas): Not available.Lower and upper explosive: Not available.

(flammable) limits

Vapor pressure : Not available.





Section 9. Physical and chemical properties

Vapor density : Not available.

Relative density : Not available.

Solubility : Miscible in water.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Viscosity: Not available.Volatility: Not available.VOC (w/w): 1.2 % (w/w)

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 and acids.

Slightly reactive or incompatible with the following materials: metals.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Cetrimonium bromide Trometamol	LD50 Oral LD50 Oral		410 mg/kg 5500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Cetrimonium bromide	Eyes - Severe irritant	Rabbit	-	450 mg	-
Trometamol	Skin - Moderate irritant	Rabbit	-	25%	-
	Skin - Severe irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Woman	-	1%	-

Sensitization

There is no data available.

Carcinogenicity

There is no data available.

Specific target organ toxicity (single exposure)





Section 11. Toxicological information

Name	3.7	Route of exposure	Target organs
Cetrimonium bromide	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Cetrimonium bromide	Category 2	Oral	gastrointestinal tract

Aspiration hazard

There is no data available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : Causes serious eye irritation.

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

Ingestion : Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

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

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

Short term exposure

Potential immediate

: No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity





Section 11. Toxicological information

Acute toxicity estimates

Route	ATE value
Oral	13138.2 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Cetrimonium bromide	Acute EC50 90 μg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Cetrimonium bromide	-	444 to 677	high

Mobility in soil

Soil/water partition coefficient (Koc)

: There is no data available.

Other adverse effects

: No known significant effects 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 disposed 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	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-



Lysis Buffer L

Section 14. Transport information

Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

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 Annex II of MARPOL 73/78 and the IBC Code : 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. **Canada inventory** : All components are listed or exempted.

International lists National inventory

Australia : All components are listed or exempted. China : All components are listed or exempted.

Europe : Not determined.

Japan : All components are listed or exempted.

Malaysia Not determined.

New Zealand : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted.

Taiwan : Not determined.

Section 16. Other information

History

: 05/15/2015 Date of issue

Version

Prepared by : KMK Regulatory Services Inc.

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 A

Section 1. Identification

GHS product identifier Wash Solution A

Other means of identification

. .

Product code :

Product type : Liquid.

Identified uses

Supplier/Manufacturer: 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. Hazards identification

Classification of the substance or mixture

: Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Physical hazards not : None known.

otherwise classified

(PHNOC)

: None known.

Health hazards not otherwise classified

(HHNOC)





Section 3. Composition/information on ingredients

Substance/mixture

Other means of

identification

CAS number/other identifiers

CAS number : Not applicable.

Product code

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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 : Not applicable. Inhalation : Not applicable. **Skin contact** : Not applicable. Ingestion : Not applicable.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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.

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 : Treat symptomatically. Specific treatments : No specific treatment.

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

media

: None known.

Specific hazards arising

: No specific fire or explosion hazard.

from the chemical





Section 5. Fire-fighting measures

Hazardous thermal decomposition products : No specific data.

Special protective actions

for fire-fighters

: No special measures are required.

Special protective

equipment for fire-fighters

: No special protection is required.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

: 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 : No special requirements.

Methods and materials for containment and cleaning up

Spill

: Dilute with water and mop up if water-soluble or absorb with an inert dry material and

place in an appropriate waste disposal container.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

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.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations.

Section 8. Exposure controls/personal protection

Control parameters

Canada

Occupational exposure limits

No exposure limit value known.

Appropriate engineering

controls

: No special measures are required.

Environmental exposure

controls

: No special measures are required.

Individual protection measures

Hygiene measures : Follow good hygiene measure.

: Not required under normal conditions of use. Eye/face protection





Section 8. Exposure controls/personal protection

Skin protection

Hand protection : Not required under normal conditions of use. **Body protection** : Not required under normal conditions of use. Other skin protection : Not required under normal conditions of use. **Respiratory protection** : Not required under normal conditions of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear.] Color Colorless. Odor : Odorless. : Not available. Odor threshold pН : Not available. **Melting point** : Not available. : Not available. **Boiling point** : Not applicable. Flash point **Evaporation rate** : Not available. : Not applicable. Flammability (solid, gas) Lower and upper explosive : Not applicable.

(flammable) limits

: Not available. Vapor pressure Vapor density : Not available. **Relative density** : Not available. : Not available. Solubility Partition coefficient: n-: Not available.

octanol/water

: Not applicable. **Auto-ignition temperature Decomposition temperature** : Not available. **Viscosity** : Not available. Volatility : Not available.

: 0 % (w/w) VOC (w/w)

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.

: None known. **Incompatible materials**





Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Carcinogenicity

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

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact
 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.
 No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 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 also 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 : No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.





Section 11. Toxicological information

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

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 coefficient (Koc)

: There is no data available.

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

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. No specific disposal consideration.

Section 14. Transport information

	TDG	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards		No.	No.
Additional information	-	-	-



Section 14. Transport information

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 : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

Canadian lists

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Date of issue Date of previous issue Version

Prepared by : KMK Regulatory Services Inc.

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