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Company
Technical Phone
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GENEALL BIOTECHNOLOGY CO., LTD.
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The following MSDS included following products:

Cat. No	Product description
114-150	Exgene™ Soil DNA mini [50preps]
114-106	Exgene™ Soil DNA mini [6preps]

SAFETY DATA SHEET

Product Name

Buffer SL

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name Buffer SL

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance or mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Name GENEALL BIOTECHNOLOGY CO., LTD
 Address Geneall B/D, 303-7, Dongnam-ro, Songpa-gu, Seoul, Korea
 Information contact <+82-2-407-0096
 E-Mail (competent person) sales@geneall.com
 Emergency Telephone Number <+82-2-407-0096

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Serious eye damage/eye irritation Category 2

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms



Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a doctor/physician if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

Disposal

2.3 Other Non-GHS Classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture	
Substance name	CAS No.	Concentration(%)
N-Lauroyl sarcosine, sodium salt	137-16-6	1-3%

4. FIRST AID MEASURES

4.1 Description of first aid measures

General informations	Notify doctor/physician about the substance to take necessary actions.
Following eye contact	Rinse 15 minutes, seek medical attention.
Following skin contact	Wash with soap and water.
Following inhalation	Move to fresh air.
Following ingestion	Rinse mouth; do NOT induce vomiting

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry sand or soil
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	No data available
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5.3 Precautions for fire-fighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
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5.4 Further information

No special fire hazards for mixture at this concentration.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear gloves and eye protection. Absorb with inert material. Avoid release to environment.
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6.2 Environmental precautions

Environmental precautions	Avoid dispersal of spill material and run off into waterway, sewers, drainage, or contained areas.
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6.3 Methods and material for containment and cleaning up

Method for cleaning up	Do not cause dust when handling waste. Keep in suitable, closed containers for disposal.
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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.
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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels	Store in a well-ventilated place.
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7.3 Specific end use(s)

Specific end use(s)	Laboratory chemicals.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No data available

8.2 Exposure controls

No data available

8.3 Personal protective equipment

Respiratory protection

Wear respiratory protection, according to the physical and chemical properties of the exposed material which has been tested and approved under appropriate government standard.

Suitable eye protection

Wear tight-fitting safety glasses and face shields.
Wear a shading mask or goggles for eye protection which has been tested and approved under appropriate government standards.

Hand protection

Wear protective gloves which has been tested and approved under appropriate government standards. Check gloves before use.
Dispose of gloves after use according to relevant regulations and GLP standards and wash, dry hands.

Skin and body protection

Wear suitable chemical-resistant clothing. Choose according to the concentration and amount of material in the work area.
Wear chemical-protective and non-static shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	No data available
Odor	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Solubility (ies)	No data available
Vapour density	No data available
Specific gravity	No data available
Partial coefficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Molecular weight	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No data available

10. STABILITY AND REACTIVITY

10.1 Chemical stability and possibility of hazardous reactions

Stable under recommended conditions.

10.2 Conditions to avoid

No data available

10.3 Materials to avoid

Strong Acids

10.4 Hazardous decomposition products

Hazardous decomposition generated from a fire : Carbon oxides, Nitrogen oxides(NOx), Sodium oxide

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No acute toxicity data are available for the mixture
Skin corrosion/irritation	The mixture is not expected to cause skin irritation at the given concentration.
Respiratory sensitisation	No data available.
Serious eye damage/eye irritation	The mixture causes eye irritation (Eye Irrit. 2, H319) based on component data.
Carcinogenicity	
IARC	Not classified as cancer-causing.
Germ cell mutagenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity – single exposure	No data available.
Specific target organ toxicity – repeated exposure	No data available.
Aspiration hazard	Not applicable.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity	No data available
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12.2 Persistence and degradability

Persistence	No data available
Degradability	No data available

12.3 Bioaccumulative potential

Bioaccumulation	No data available
Biodegradability	No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

Not expected to be hazardous to aquatic environment at this concentration

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with all applicable environmental laws and regulations.

13.2 Disposal considerations

Dispose of in accordance with all applicable environmental laws and regulations.

14. TRANSPORT INFORMATION

14.1 UN number

The product is not classified as dangerous goods under ADR/IMDG/IATA.

14.2 UN Proper shipping name

The product is not classified as dangerous goods under ADR/IMDG/IATA.

14.3 Transport hazard class(es)	The product is not classified as dangerous goods under ADR/IMDG/IATA.
14.4 Packing group	The product is not classified as dangerous goods under ADR/IMDG/IATA.
14.5 Environmental hazards	The product is not classified as dangerous goods under ADR/IMDG/IATA.
14.6 Special precautions for user	The product is not classified as dangerous goods under ADR/IMDG/IATA.

15. REGULATORY INFORMATION

15.1 Industrial Safety and Health Act	Not listed as a controlled substance
15.2 Toxic Chemicals Control Act	Not listed as a controlled substance
15.3 Safety Control of Dangerous Substances Act	Not listed as a controlled substance
15.4 Wastes Control Act	Not listed as a controlled substance
15.5 Other requirements in domestic and other countries	Not listed as a controlled substance

16. OTHER INFORMATION

Issued date

2017-06-02

Revision number

3

Revision date

2025-11-28

Reference

Sigma-Aldrich

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

– END OF SAFETY DATA SHEET –

SAFETY DATA SHEET

Product Name

Buffer RH

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name Buffer RH

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance or mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Name GENEALL BIOTECHNOLOGY CO., LTD
Address Geneall B/D, 303-7, Dongnam-ro, Songpa-gu, Seoul, Korea
Information contact <+82-2-407-0096
E-Mail (competent person) sales@geneall.com
Emergency Telephone Number <+82-2-407-0096

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

This product is NOT classified as regulated substance and NOT subject to label elements.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms None
Signal word None
Hazard statements None
Precautionary statements None required

2.3 Other Non-GHS Classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Substance name

CAS No.

Concentration (%)

No hazardous substance.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General informations Notify doctor/physician about the substance to take necessary actions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

KOSHA exposure limits	No information available
ACGIH exposure limits	No information available
Biological Exposure Indices (BEIs)	No information available

8.2 Exposure controls

No information available

8.3 Personal protective equipment

Respiratory protection	No special exposure limits. Use standard lab PPE (gloves, lab coat, eye protection).
Suitable eye protection	Wear chemical-resistant eye and face protection.
Hand protection	Wear suitable chemical-resistant gloves.
Skin and body protection	Choose the protective equipment based on the concentration and amount of hazardous substances in workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	No data available
Odor	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	- / -
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Solubility (ies)	No data available
Vapour density	No data available
Specific gravity	No data available
Partial coefficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Molecular weight	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No data available

10. STABILITY AND REACTIVITY

10.1 Chemical stability and possibility of hazardous reactions

Stable under recommended storage conditions

10.2 Conditions to avoid

No data available

10.3 Materials to avoid

No data available

10.4 Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION

11. Information on the likely routes of exposure

No data available

11.2 Health hazard information

Acute toxicity	No data available
Oral	No data available
Dermal	No data available
Inhalation	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Skin sensitisation	No data available
Carcinogenicity	No data available
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
STOT – single exposure	No data available
STOT – repeated exposure	No data available
Aspiration hazard	No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Toxicity to fish	No data available
Toxicity to algae/aquatic plants	No data available
Toxicity to microorganisms	No data available

12.2 Persistence and degradability

Persistence	No data available
Degradability	No data available

12.3 Bioaccumulative potential

Bioaccumulation No data available

Biodegradability No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with all applicable environmental laws and regulations.

13.2 Disposal considerations

Dispose of in accordance with all applicable environmental laws and regulations.

14. TRANSPORT INFORMATION

14.1 UNRTDG

Not regulated as a dangerous good

14.2 IATA-DGR

Not regulated as a dangerous good

14.3 IMDG-Code

Not regulated as a dangerous good

14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

14.5 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

15.1 CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

15.2 SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

15.3 SARA 302 Extremely Hazardous Substances

Not applicable for product as supplied.

This material does not contain any components with a section 302 EHS TPQ.

15.4 SARA 311/312 Hazards

No SARA Hazards

15.5 Other requirements in domestic and other countries

Not applicable for product as supplied.

16. OTHER INFORMATION

Issued date

2016-05-17

Revision number

3

Revision date

2025-11-28

Reference

Sigma Aldrich, SARA – Superfund Amendments and Reauthorization, UN – United Nations; UNRTDG – United Nations Recommendations on the Transport of Dangerous Goods

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

SAFETY DATA SHEET

Product Name

Buffer PD

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name Buffer PD

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance or mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Name GENEALL BIOTECHNOLOGY CO., LTD
 Address Geneall B/D, 303-7, Dongnam-ro, Songpa-gu, Seoul, Korea
 Information contact <+82-2-407-0096
 E-Mail (competent person) sales@geneall.com
 Emergency Telephone Number <+82-2-407-0096

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Serious eye damage/eye irritation Category 2

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

Precautionary statements

Prevention

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501 Dispose of contents/container in accordance with local regulations.

2.3 Other Non-GHS Classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Mixture

Substance name

CAS No.

Concentration(%)

4. FIRST AID MEASURES

4.1 Description of first aid measures

General informations	Notify doctor/physician about the substance to take necessary actions.
Following eye contact	Rinse 15 minutes, seek medical attention.
Following skin contact	Wash with soap and water.
Following inhalation	Move to fresh air.
Following ingestion	Rinse mouth; do NOT induce vomiting

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry sand or soil
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	No data available
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5.3 Precautions for fire-fighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
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5.4 Further information

No special fire hazards for mixture at this concentration.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear gloves and eye protection. Absorb with inert material. Avoid release to environment.
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6.2 Environmental precautions

Environmental precautions	Avoid dispersal of spill material and run off into waterway, sewers, drainage, or contained areas.
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6.3 Methods and material for containment and cleaning up

Method for cleaning up	Do not cause dust when handling waste. Keep in suitable, closed containers for disposal.
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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.
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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels	Store in a well-ventilated place.
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7.3 Specific end use(s)

Specific end use(s)	Laboratory chemicals.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No data available

8.2 Exposure controls

No data available

8.3 Personal protective equipment

Respiratory protection	Wear respiratory protection, according to the physical and chemical properties of the exposed material which has been tested and approved under appropriate government standard.
Suitable eye protection	Wear tight-fitting safety glasses and face shields. Wear a shading mask or goggles for eye protection which has been tested and approved under appropriate government standards.
Hand protection	Wear protective gloves which has been tested and approved under appropriate government standards. Check gloves before use. Dispose of gloves after use according to relevant regulations and GLP standards and wash, dry hands.
Skin and body protection	Wear suitable chemical-resistant clothing. Choose according to the concentration and amount of material in the work area. Wear chemical-protective and non-static shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	No data available
Odor	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (soild, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Solubility (ies)	No data available
Vapour density	No data available
Specific gravity	No data available
Partial coefficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Molecular weight	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No data available

10. STABILITY AND REACTIVITY

10.1 Chemical stability and possibility of hazardous reactions

Stable under recommended conditions.

10.2 Conditions to avoid

No data available

10.3 Materials to avoid

Strong Acids

10.4 Hazardous decomposition products

Hazardous decomposition generated from a fire : Carbon oxides, Nitrogen oxides(NOx), Sodium oxide

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No acute toxicity data are available for the mixture
Skin corrosion/irritation	The mixture is not expected to cause skin irritation at the given concentration.
Respiratory sensitisation	No data available.
Serious eye damage/eye irritation	The mixture causes eye irritation (Eye Irrit. 2, H319) based on component data.
Carcinogenicity	
IARC	Not classified as cancer-causing.
Germ cell mutagenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity – single exposure	No data available.
Specific target organ toxicity – repeated exposure	No data available.
Aspiration hazard	Not applicable.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity	No data available
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12.2 Persistence and degradability

Persistence	No data available
Degradability	No data available

12.3 Bioaccumulative potential

Bioaccumulation	No data available
Biodegradability	No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

Not expected to be hazardous to aquatic environment at this concentration

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with all applicable environmental laws and regulations.

13.2 Disposal considerations

Dispose of in accordance with all applicable environmental laws and regulations.

14. TRANSPORT INFORMATION

14.1 UN number

The product is not classified as dangerous goods under ADR/IMDG/IATA.

14.2 UN Proper shipping name

The product is not classified as dangerous goods under ADR/IMDG/IATA.

14.3 Transport hazard class(es)

The product is not classified as dangerous goods under ADR/IMDG/IATA.

14.4 Packing group

The product is not classified as dangerous goods under ADR/IMDG/IATA.

14.5 Environmental hazards

The product is not classified as dangerous goods under ADR/IMDG/IATA.

14.6 Special precautions for user

The product is not classified as dangerous goods under ADR/IMDG/IATA.

15. REGULATORY INFORMATION

15.1 Industrial Safety and Health Act	Not listed as a controlled substance
15.2 Toxic Chemicals Control Act	Not listed as a controlled substance
15.3 Safety Control of Dangerous Substances Act	Not listed as a controlled substance
15.4 Wastes Control Act	Not listed as a controlled substance
15.5 Other requirements in domestic and other countries	Not listed as a controlled substance

16. OTHER INFORMATION**Issued date**

2016-05-17

Revision number

3

Revision date

2025-11-28

Reference

Sigma-Aldrich

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- END OF SAFETY DATA SHEET -

SAFETY DATA SHEET

Product Name

Buffer TB

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name Buffer TB

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance or mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Name GENEALL BIOTECHNOLOGY CO., LTD
 Address Geneall B/D, 303-7, Dongnam-ro, Songpa-gu, Seoul, Korea
 Information contact <+82-2-407-0096
 E-Mail (competent person) sales@geneall.com
 Emergency Telephone Number <+82-2-407-0096

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Acute toxicity/oral Category 4
 Acute toxicity/inhalation Category 4
 Acute toxicity/skin Category 4
 Skin corrosion/irritation Category 1
 Serious eye damage/eye irritation Category 1

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms



Signal word

Danger

Hazard statements

H302 Harmful if swallowed

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled

Precautionary statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection

Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P301 + P312 If swallowed and feeling unwell, seek medical attention (consult a doctor). Rinse mouth

P301+P330+P331 If swallowed, rinse mouth. Do not induce vomiting.

P304+P340+P310: If inhaled, move to fresh air and rest in a position that is comfortable for breathing. Seek immediate medical attention (consult a doctor).

P305+P351+P338+P310: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Seek immediate medical attention (consult a doctor).

P363 Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with all applicable environmental laws and regulations.

2.3 Other Non-GHS Classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Mixture

Substance name

CAS No.

Concentration (%)

GUANIDINE THIOCYANATE

593-84-0

50-60

4. FIRST AID MEASURES

4.1 Description of first aid measures

General informations

Notify doctor/physician about the substance to take necessary actions.

Following eye contact

Rinse cautiously with water for at least 15 minutes.
Remove contact lenses. Get medical advice/attention.

Following skin contact

If on skin (or hair), remove all contaminated clothing. Rinse skin with water/shower.
Seek medical attention (consult a doctor).

Following inhalation

If inhaled and breathing becomes difficult, move to fresh air and rest in a position that is comfortable for breathing.

Following ingestion

If not breathing, perform artificial respiration. Seek medical attention (consult a doctor).
If you feel unwell, seek medical advice/attention.
Do not induce vomiting. Rinse the mouth with water.
Never give anything to eat to an unconscious person.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

For this substance, use alcohol foam, carbon dioxide, or water spray for extinguishing.
For suffocation fires, use dry sand or soil.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting

No data available

5.3 Precautions for fire-fighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid inhaling dust, fumes, gas, mist, vapor, or spray
Ensure proper ventilation
If safe to do so, stop the leak
Evacuate people to a safe area

6.2 Environmental precautions

Environmental precautions

Avoid dispersal of spill material and run off into waterway, sewers, drainage, or contained areas. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Method for cleaning up

Absorb spills with an inert material (e.g., dry sand or soil), collect it in a chemical waste container, and dispose of it as hazardous waste
Do not wash away with water

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with eyes or skin
Avoid inhaling dust, fumes, gas, mist, vapor, or spray
Do not eat, drink, or smoke while using this product
Use only in well-ventilated areas
Follow all MSDS/label precautionary measures as the product may still leave residues even after the container is emptied
Handle and store with care
Open the container carefully before use

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a dark, cool place.
Keep the container tightly sealed and store in a dry, well-ventilated area.
Carefully reseal opened containers and prevent them from tipping to avoid leakage.
Keep away from food and beverages.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure standards

Does not contain substances with established exposure limits.

8.2 Exposure controls

No data available

8.3 Personal protective equipment

Respiratory protection

Wear respiratory protective equipment certified by the Korean Occupational Safety and Health Agency (KOSHA) that matches the physicochemical properties of the substance to which you are exposed.

Suitable eye protection

Use tightly fitting safety glasses or face shields. Use shaded lenses or safety goggles certified under KOSHA standards.

Hand protection

Use protective gloves certified by KOSHA. Inspect gloves before use. Dispose of contaminated gloves according to legal requirements and Good Laboratory Practice (GLP), then wash and dry hands.

Skin and body protection

Use chemical-resistant full-body protective clothing. Choose the type of protective gear based on the concentration and amount of hazardous substances in the specific work environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

liquid

Color

Colorless

Odor

Characteristic

Odour Threshold

No data available

pH

7 – 8

Melting point/freezing point

No data available

Boiling point/boiling range

No data available

Flash point

No data available

Evaporation rate

No data available

Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Solubility (ies)	No data available
Vapour density	No data available
Specific gravity	No data available
Partial coefficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Molecular weight	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No data available

10. STABILITY AND REACTIVITY

10.1 Chemical stability and possibility of hazardous reactions

Stable under recommended conditions.
Hazardous decomposition generated from a fire.

10.2 Conditions to avoid

No data available

10.3 Materials to avoid

No data available

10.4 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.
– Carbon oxides, Nitrogen Oxides, Sulfur Oxides, Hydrogen cyanide, Ammonia

11. TOXICOLOGICAL INFORMATION

11.1 Information on the likely routes of exposure

Inhalation	Harmful if inhaled. The substance is very harmful to mucous membranes and the upper respiratory tract.
Ingestion	Harmful if swallowed. Causes burns.
Skin	Harmful if absorbed through the skin. Causes skin burns.
Eyes	Causes eye burns.
Worsened medical conditions	May cause neurological effects.

11.2 Health hazard information

Acute toxicity	Harmful if swallowed, in contact with skin, or if inhaled
Skin corrosion/irritation	Causes severe skin burns (corrosive).
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitisation	No data available
Skin sensitiation	No data available
Carcinogenicity	According to IARC, no component of this product present at 0.1% or more is classified as a probable, possible, or confirmed human carcinogen.
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
STOT – single exposure	May cause irritation to respiratory tract (based on corrosive properties).

STOT – repeated exposure	No data available
Aspiration hazard	No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Toxicity to fish	No data available
Toxicity to algae/aquatic plants	No data available
Toxicity to microorganisms	No data available

12.2 Persistence and degradability

<u>Persistence</u>	No data available
<u>Degradability</u>	No data available

12.3 Bioaccumulative potential

<u>Bioaccumulation</u>	No data available
<u>Biodegradability</u>	No data available

12.4 Mobility in soil No data available

12.5 Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with all applicable environmental laws and regulations.

13.2 Disposal considerations

Dispose of in accordance with all applicable environmental laws and regulations.

14. TRANSPORT INFORMATION

14.1 UN number Not applicable

14.2 UN Proper shipping name Not applicable

14.3 Transport hazard class(es) Not applicable

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for user Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION

15.1 Regulations under the Occupational Safety and Health Act

Hazardous Substances Requiring Permission	Not applicable
Prohibited Hazardous Substances for Manufacturing:	Not applicable
Carcinogenic Substances	Not applicable
Factors Subject to Workplace Environment Measurement	Not applicable
Hazardous Factors Requiring Special Health Examinations	Not applicable
Controlled Substances	Not applicable

15.2 Regulations under the Chemical Substances Control Act

Toxic Substances	Not applicable
Observation Substances	Not applicable
Restricted Substances	Not applicable
Prohibited Substances	Not applicable
Emergency Response Substances	Not applicable

15.3 Regulations under the Dangerous Substances Safety Management Act

Not classified as dangerous substances

15.4 Regulations under the Waste Management Act

Must be handled according to Article 13 of the Waste Management Act on waste disposal

15.5 Other requirements in domestic and other countries Not applicable for product as supplied.

16. OTHER INFORMATION

Issued date

2016-10-31

Revision number

2

Revision date

2024-06-30

Reference

Sigma Aldrich Korea (www.sial.co.kr)

National Emergency Management Agency(<http://hazmat.nema.go.kr/index.jsp>)

lookchem

National Emergency Management Agency(<http://hazmat.nema.go.kr/index.jsp>)

Quantitative Structure Activity Relation(QSAR)

Registry of Toxic Effects of Chemical Substances

Quantitative Structure Activity Relation(QSAR)

Quantitative Structure Activity Relation(QSAR)(

EPI Suite

Quantitative Structure Activity Relation(QSAR)

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- END OF SAFETY DATA SHEET-

SAFETY DATA SHEET

Product Name

Buffer EW2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name Buffer EW2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance or mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Name GENEALL BIOTECHNOLOGY CO., LTD
 Address Geneall B/D, 303-7, Dongnam-ro, Songpa-gu, Seoul, Korea
 Information contact <+82-2-407-0096
 E-Mail (competent person) sales@geneall.com
 Emergency Telephone Number <+82-2-407-0096

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

This product is NOT classified as regulated substance and NOT subject to label elements.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms	No information available.
Signal word	No information available.
Hazard statements	No information available.
Precautionary statements	
Prevention	No information available.
Response	No information available.
Storage	No information available.
Disposal	No information available.

2.3 Other Non-GHS Classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture
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Substance name

CAS No.

Concentration (%)

No hazardous substance.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General informations Notify doctor/physician about the substance to take necessary actions.

Following eye contact	Rinse cautiously with water for at least 20 minutes. Get medical advice/attention.
Following skin contact	Immediately flush the skin with water over 20 minutes. Immediately seek medical advice/attention if you feel unwell.
Following inhalation	Move in fresh air. Get medical advice/attention if you feel unwell.
Following ingestion	If swallowed, rinse mouth. Do not try vomiting. If exposed or concerned, seek medical advice/attention.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Small fire: dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, carbon dioxide (suitable extinguishing media)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Inhalation or vapor or contact with substance may cause contamination and result in hazardous effects.
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5.3 Precautions for fire-fighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary. Spills may cause contamination. If safe to do, remove container from fire area.
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5.4 Further information

No information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Do NOT handle damaged containers or spill without appropriate protection. Avoid contact with the eyes, skin, and clothing.
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6.2 Environmental precautions

Environmental precautions	Do NOT directly release into the environment.
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6.3 Methods and material for containment and cleaning up

Method for cleaning up	Keep in suitable, closed containers for disposal.
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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Avoid prolonged or repeated contact with skin. Avoid contact with the eyes, skin, and clothing.
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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels	Keep the container tightly sealed. Keep at low temperatures and avoid direct sunlight.
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7.3 Specific end use(s)

Specific end use(s)	Laboratory chemicals.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

KOSHA exposure limits	No information available
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ACGIH exposure limits No information available

Biological Exposure Indices (BEIs) No information available

8.2 Exposure controls

No information available

8.3 Personal protective equipment

Respiratory protection No information available.

Suitable eye protection Wear chemical-resistant eye and face protection.

Hand protection Wear suitable chemical-resistant gloves.

Skin and body protection Wear suitable chemical-resistant clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state liquid

Color Colorless

Odor Characteristic

Odour Threshold No data available

pH 7–8

Melting point/freezing point No data available

Boiling point/boiling range No data available

Flash point No data available

Evaporation rate No data available

Flammability (solid, gas) – / –

Upper/lower flammability or explosive limits No data available

Vapour pressure No data available

Solubility (ies) No data available

Vapour density No data available

Specific gravity No data available

Partial coefficient n-octanol/water No data available

Auto-ignition temperature No data available

Decomposition temperature No data available

Viscosity No data available

Molecular weight No data available

Explosive properties No data available

Oxidizing properties No data available

9.2 Other information

No data available

10. STABILITY AND REACTIVITY

10.1 Chemical stability and possibility of hazardous reactions

Stable under recommended storage conditions

Stable under normal pressure and room temperature condition

Non-flammable : this material does not burn but may evolve corrosive/toxic fumes when heated.

10.2 Conditions to avoid

No data available

10.3 Materials to avoid

No data available

10.4 Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	No data available.
<u>Acute toxicity</u>	No data available.
<u>Skin corrosion/irritation</u>	No data available.
<u>Respiratory sensitisation</u>	No data available.
<u>Skin irritation</u>	No data available.
<u>Serious eye damage/eye irritation</u>	No data available.
<u>Respiratory sensitisation</u>	No data available.
<u>Skin sensitiation</u>	No data available.
<u>Carcinogenicity</u>	No data available.
<u>Germ cell mutagenicity</u>	No data available.
<u>Reproductive toxicity</u>	No data available.
<u>Specific target organ toxicity – single exposure</u>	No data available.
<u>Specific target organ toxicity – repeated exposure</u>	No data available.
<u>Aspiration hazard</u>	No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistence and degradability	
<u>Persistence</u>	No data available
<u>Degradability</u>	No data available
12.3 Bioaccumulative potential	
<u>Bioaccumulation</u>	No data available
<u>Biodegradability</u>	No data available
12.4 Mobility in soil	No data available
12.5 Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with all applicable environmental laws and regulations.

13.2 Disposal considerations

Dispose of in accordance with all applicable environmental laws and regulations.

14. TRANSPORT INFORMATION

14.1 UN number	Not applicable for product as supplied.
14.2 UN Proper shipping name	Not applicable for product as supplied.
14.3 Transport hazard class(es)	Not applicable for product as supplied.
14.4 Packing group	Not applicable for product as supplied.
14.5 Environmental hazards	Not applicable for product as supplied.
14.6 Special precautions for user	Not applicable for product as supplied.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
	Not applicable for product as supplied.

15. REGULATORY INFORMATION

- | | |
|---|---|
| 15.1 Industrial Safety and Health Act | Not applicable for product as supplied. |
| 15.2 Toxic Chemicals Control Act | Not applicable for product as supplied. |
| 15.3 Safety Control of Dangerous Substances Act | Not applicable for product as supplied. |
| 15.4 Wastes Control Act | In accordance with international laws and regulations of country. |
| 15.5 Other requirements in domestic and other countries | Not applicable for product as supplied. |

16. OTHER INFORMATION

Issued date

2025-04-01

Revision number

-

Revision date

-

Reference

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- END OF SAFETY DATA SHEET-

SAFETY DATA SHEET

Product Name

Buffer EB

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name Buffer EB

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance or mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Name GENEALL BIOTECHNOLOGY CO., LTD
 Address Geneall B/D, 303-7, Dongnam-ro, Songpa-gu, Seoul, Korea
 Information contact <+82-2-407-0096
 E-Mail (competent person) sales@geneall.com
 Emergency Telephone Number <+82-2-407-0096

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

This product is NOT classified as regulated substance and NOT subject to label elements.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms	No information available.
Signal word	No information available.
Hazard statements	No information available.
Precautionary statements	
Prevention	No information available.
Response	No information available.
Storage	No information available.
Disposal	No information available.

2.3 Other Non-GHS Classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Substance name

CAS No.

Concentration (%)

No hazardous substance.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General informations Notify doctor/physician about the substance to take necessary actions.

Following eye contact	Rinse cautiously with water for at least 20 minutes. Get medical advice/attention.
Following skin contact	Immediately flush the skin with water over 20 minutes. Remove contaminated clothes and shoes.
Following inhalation	Move in fresh air. Get medical advice/attention if you feel unwell.
Following ingestion	If swallowed, rinse mouth. Do not try vomiting. If exposed or concerned, seek medical advice/attention.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Small fire: dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, carbon dioxide (suitable extinguishing media)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Inhalation or vapor or contact with substance may cause contamination and result in hazardous effects.
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5.3 Precautions for fire-fighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary. Spills may cause contamination. If safe to do, remove container from fire area.
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5.4 Further information

No information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Do NOT handle damaged containers or spill without appropriate protection. Avoid contact with the eyes, skin, and clothing.
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6.2 Environmental precautions

Environmental precautions	Do NOT directly release into the environment.
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6.3 Methods and material for containment and cleaning up

Method for cleaning up	Keep in suitable, closed containers for disposal.
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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin, clothing.
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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels	Keep the container tightly sealed. Keep at low temperatures and avoid direct sunlight.
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7.3 Specific end use(s)

Specific end use(s)	Laboratory chemicals.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

KOSHA exposure limits	No information available
ACGIH exposure limits	No information available
Biological Exposure Indices (BEIs)	No information available

8.2 Exposure controls

No information available

8.3 Personal protective equipment

Respiratory protection	No information available.
Suitable eye protection	Wear chemical-resistant eye and face protection.
Hand protection	Wear suitable chemical-resistant gloves.
Skin and body protection	Wear suitable chemical-resistant clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	Colorless
Odor	Characteristic
Odour Threshold	No data available
pH	8–9
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	– / –
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Solubility (ies)	No data available
Vapour density	No data available
Specific gravity	No data available
Partial coefficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Molecular weight	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No data available

10. STABILITY AND REACTIVITY

10.1 Chemical stability and possibility of hazardous reactions

Stable under recommended storage conditions
Stable under normal pressure and room temperature condition
Non-flammable : this material does not burn but may evolve corrosive/toxic fumes when heated.

10.2 Conditions to avoid

No data available

10.3 Materials to avoid

No data available

10.4 Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	No data available.
<u>Acute toxicity</u>	No data available.
<u>Skin corrosion/irritation</u>	No data available.
<u>Respiratory sensitisation</u>	No data available.
<u>Skin irritation</u>	No data available.
<u>Serious eye damage/eye irritation</u>	No data available.
<u>Respiratory sensitisation</u>	No data available.
<u>Skin sensitiation</u>	No data available.
<u>Carcinogenicity</u>	No data available.
<u>Germ cell mutagenicity</u>	No data available.
<u>Reproductive toxicity</u>	No data available.
<u>Specific target organ toxicity – single exposure</u>	No data available.
<u>Specific target organ toxicity – repeated exposure</u>	No data available.
<u>Aspiration hazard</u>	No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistnece and degradability	
<u>Persistence</u>	No data available
<u>Degradability</u>	No data available
12.3 Bioaccumulative potential	
<u>Bioaccumulation</u>	No data available
<u>Biodegradability</u>	No data available
12.4 Mobility in soil	No data available
12.5 Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with all applicable environmental laws and regulations.

13.2 Disposal considerations

Dispose of in accordance with all applicable environmental laws and regulations.

14. TRANSPORT INFORMATION

14.1 UN number	Not applicable for product as supplied.
14.2 UN Proper shipping name	Not applicable for product as supplied.
14.3 Transport hazard class(es)	Not applicable for product as supplied.
14.4 Packing group	Not applicable for product as supplied.
14.5 Envirommental hazards	Not applicable for product as supplied.
14.6 Special precautions for user	Not applicable for product as supplied.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
	Not applicable for product as supplied.

15. REGULATORY INFORMATION

- | | |
|---|---|
| 15.1 Industrial Safety and Health Act | Not applicable for product as supplied. |
| 15.2 Toxic Chemicals Control Act | Not applicable for product as supplied. |
| 15.3 Safety Control of Dangerous Substances Act | Not applicable for product as supplied. |
| 15.4 Wastes Control Act | In accordance with international laws and regulations of country. |
| 15.5 Other requirements in domestic and other countries | Not applicable for product as supplied. |

16. OTHER INFORMATION

Issued date

2016-10-28

Revision number

1

Revision date

2023-09-30

Reference

Sigma

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

– END OF SAFETY DATA SHEET –