

# SAFETY DATA SHEET

SDS No.7510-11311

Date

November 22, 2021

1/1 page

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## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : MonoSpin ProG Column type  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 7510-11311  
SDS No. : 7510-11311  
Research use only.

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This product is a "Kit", and this includes the following products.

Please refer to the SDS of each product for the hazard information of contents.

- 1) SDS No. 7510-0033 MonoSpin ProG Spin column
- 2) SDS No. 7510-0036 Binding Buffer
- 3) SDS No. 7510-0037 Washing Buffer
- 4) SDS No. 7510-0038 Elution Buffer
- 5) SDS No. 7510-0039 Regeneration Buffer
- 6) SDS No. 7510-0040 Neutralizing Buffer

# SAFETY DATA SHEET

SDS No.7510-0033

Date

November 22, 2021 1/4 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : MonoSpin Pro G Spin column  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 7510-11311  
SDS No. : 7510-0033  
Research use only.

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : - - -  
PRECAUTIONARY STATEMENTS : - - -  
OTHER INFORMATION : May be harmful if inhaled and ingested.  
May cause eye and skin irritation.  
Dispose of contents/container in accordance with all applicable regulations.  
MOST IMPORTANT HAZARDS : Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : Mixture  
COMMON CHEMICAL NAME : MonoSpin Pro G Spin column  
SYNONYMS : - - -

CHEMICAL IDENTITY	CONTENT	CHEMICAL FORMULA	CAS No.	TSCA INVENTORY	EINECS No.
Pro G modified Monolithic Silicagel	approx. 3 %	-	-	-	-
Preservative solution	approx. 97 % (Main component approx. < 0.1 %)	-	-	-	-

## 4. FIRST AID MEASURES

GENERAL ADVICE : If fragments/respirable dust contacts with eyes or skin, wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment. If irritation persists, consult a physician.

INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.

SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.

MOST IMPORTANT SYMPTOMS AND EFFECTS : Shreds and dusts may cause irritation of mucous membranes, respiratory tract, skin and eyes.

5. FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA : This product is noncombustible.
- FIRE & EXPLOSION HAZARDS : Toxic and irritating dust, fumes or smoke may be emitted.
- SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS : Remove ignition sources and ventilate the area.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid raising dust and avoid contact with skin and eyes.
- ENVIRONMENTAL PRECAUTIONS : Prevent spills from entering sewers, watercourses or low areas.
- METHODS FOR CLEANING UP : Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

7. HANDLING AND STORAGE

- HANDLING : Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection.  
After using this product, dispose of contents/container in accordance with all applicable regulations and appropriate ways.
- STORAGE : Store away from moisture and water in well-ventilated dry place.  
Keep container tightly closed.
- INCOMPATIBLE PRODUCTS : Water, moisture

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- ENGINEERING MEASURES : Use exhaust ventilation to keep airborne concentrations below exposure limits.  
Use adequate ventilation.
- VENTILATION : Local Exhaust ; Recommended, Mechanical(General) ; Recommended
- CONTROL PARAMETERS : Not established
  
- EXPOSURE LIMITS
  - ACGIH TLV : Not established
  - OSHA PEL : Not established
  - NIOSH REL : Not established
- PERSONAL PROTECTION
  - RESPIRATORY PROTECTION : Safety masks
  - HAND PROTECTION : Safety gloves
  - EYE PROTECTION : Safety glasses(goggles)
  - SKIN PROTECTION : Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

- PHYSICAL STATE : Solid(Monolithic silicagel)
- COLOUR : White(Monolithic silicagel)
- ODOR : Odorless
- MELTING POINT / FREEZING POINT : No data available
- BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE : No data available
- FLAMMABILITY : No data available
- LOWER AND UPPER EXPLOSION LIMIT / FLAMMABILITY LIMIT : No data available
- FLASH POINT : No data available
- AUTO-IGNITION TEMPERATURE : No data available
- DECOMPOSITION TEMPERATURE : No data available
- pH : No data available
- KINEMATIC VISCOSITY : Not applicable
- SOLUBILITY : Insoluble

**PARTITION COEFFICIENT**

n-octanol/water (log value) : No data available

**VAPOUR PRESSURE** : No data available

**DENSITY AND/OR RELATIVE DENSITY**

: No data available

**RELATIVE VAPOUR DENSITY** : Not applicable

**PARTICLE CHARACTERISTICS** : Not applicable

**10. STABILITY AND REACTIVITY**

**REACTIVITY** : It is easy to absorb moisture in the air, and carbon dioxide.

**CHEMICAL STABILITY** : Stable under recommended storage conditions.

**CONDITION TO AVOID** : Sunlight, heat, moisture, CO<sub>2</sub>, oxidizers, acids

**INCOMPATIBLE MATERIALS** : Strong oxidizers and strong acids

**HAZARDOUS DECOMPOSITION PRODUCTS**

: CO, CO<sub>2</sub>, silicone oxides

**11. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY** : No data available

**SKIN CORROSION/IRRITATION** : No data available

**EYE DAMAGE/EYE IRRITATION** : No data available

**RESPIRATORY OR SKIN SENSITIZATION**

: No data available

**GERM CELL MUTAGENICITY** : No data available

**CARCINOGENICITY** : No data available

**REPRODUCTIVE TOXICITY** : No data available

**SPECIFIC TARGET ORGAN TOXICITY**

: No data available

**ASPIRATION TOXICITY** : No data available

**12. ECOLOGICAL INFORMATION**

**HAZARDOUS TO THE AQUATIC ENVIRONMENT**

: No data available

**BIODEGRADABILITY** : No data available

**BIOACCUMULATION POTENTIAL** : No data available

**MOBILITY IN SOIL** : No data available

**HAZARDOUS TO THE OZONE LAYER**

: The ingredients which are included in this product is not listed in Annex of the Montreal Protocol.

**13. DISPOSAL INFORMATION**

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

**14. TRANSPORT INFORMATION**

**International Regulations**

**Maritime regulations** : Conform to the provisions of IMO.

UN No. : Not regulated

Proper Shipping Name : -

Class : -

Packing Group : -

Marine Pollutant : Not applicable

**Aviation regulations** : Conform to the provisions of ICAO/IATA.

UN No. : Not regulated

Proper Shipping Name : -

Class : -

Packing Group : -

**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200

EU REGULATION : CLP Regulation ((EC) No. 1272/2008)

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**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.7510-0036

Date

January 20, 2020

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## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Binding Buffer  
NAME OF MANUFACTURER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 7510-11310, 7510-11311, 7510-11312, 7510-11313  
SDS No. : 7510-0036  
Research use only.

## 2. HAZARDS IDENTIFICATION

This product is used for sample preparation in chemical analysis for research and development. Although this product is not dangerous goods, we show some data about chemical substances contained in this product for the information supplement below.

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : ---  
SIGNAL WORD : ---  
HAZARD STATEMENTS : ---  
PRECAUTIONARY STATEMENTS : ---  
OTHER INFORMATION : May possible skin irritation by long-term or prolonged contact with this product.  
Dispose of contents/container in accordance with all applicable regulations.  
MOST IMPORTANT HAZARDS : Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : Buffer(containing 0.2 % salt)  
SYNONYMS : ---  
CONTENT : ---  
CHEMICAL FORMULA : ---  
CAS No. : ---  
TASCA INVENTORY : ---  
EINECS No. : ---  
EC INDEX No. : ---

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off with soap and plenty of water. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen.  
If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.  
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED : May cause irritation of mucous membranes, respiratory tract, skin and eyes.

## 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, foam, water spray  
FIRE & EXPLOSION HAZARDS : Toxic and irritating dust, fumes or smoke may be emitted.  
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

- PERSONAL PRECAUTIONS** : Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising mist/gas/vapour and avoid contact with skin and eyes.
- ENVIROMENTAL PRECATIONS** : Prevent spills from entering sewers, watercourses or low areas.  
Comply with local disposal regulations.
- METHODS FOR CLEANING UP** : Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

**7. HANDLING AND STORAGE**

- HANDLING** : Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
- STORAGE** : Store away from sunlight in a refrigerator (2 - 10 °C).  
Keep container tightly closed.
- INCOMOPATIBLE PRODUCTS** : Oxidizers and acids

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

- ENGINEERING MEASURES** : Use exhaust ventilation to keep airborne concentrations below exposure limits.  
Use adequate ventilation.
- VENTILATION** : Local Exhaust ; Recommended, Mechanical(General) ; Recommended
- CONTROL PARAMETERS** : Not established
- PERSONAL PROTECTION**
- RESPRATORY PROTECTION** : Safety masks
- HAND PROTECTION** : Safety gloves
- EYE PROTECTION** : Safety glasses(goggles)
- SKIN PROTECTION** : Protective clothing

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- PHYSICAL STATE** : Liquid
- COLOUR** : Clear
- ODOUR** : No data available
- MELTING POINT / FREEZING POINT** : No data available
- BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE** : No data available
- FLAMMABILITY** : No data available
- LOWER AND UPPER EXPLOSION LIMIT / FLAMMABILITY LIMIT** : No data available
- FLASH POINT** : No data available
- AUTO-IGNITION TEMPERATURE** : No data available
- DECOMPOSITION TEMPERATURE** : No data available
- pH** : No data available
- KINEMATIC VISCOSITY** : No data available
- SOLUBILITY** : No data available
- PARTITION COEFFICIENT**
- n-octanol/water (log value) : No data available
- VAPOUR PRESSURE** : No data available
- DENSITY AND/OR RELATIVE DENSITY** : No data available
- RELATIVE VAPOUR DENSITY** : No data available
- PARTICLE CHARACTERISTICS** : Not applicable

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**10. STABILITY AND REACTIVITY**

REACTIVITY : Stable under recommended storage conditions.  
CHEMICAL STABILITY : No data available  
CONDITION TO AVOID : Heat, high temperature, sunlight, open flame  
INCOMPATIBLE MATERIALS : Oxidizers, acids  
HAZARDOUS DECOMPOSITION PRODUCTS  
: No data available

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**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY : No data available  
SKIN CORROSION/IRRITATION : No data available  
EYE DAMAGE/EYE IRRITATION : No data available  
GERM CELL MUTAGENICITY : No data available  
CARCINOGENICITY : No data available  
REPRODUCTIVE TOXICITY : No data available  
SPECIFIC TARGET ORGAN TOXICITY  
: No data available  
ASPIRATION TOXICITY : No data available

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**12. ECOLOGICAL INFORMATION**

ECOTOXICITY : No data available  
BIODEGRADABILITY : No data available  
BIOACCUMULATION POTENTIAL : No data available  
MOBILITY IN SOIL : No data available  
OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

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**13. DISPOSAL INFORMATION**

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

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**14. TRANSPORT INFORMATION**

IATA : Not dangerous goods  
ADR/RID : Not dangerous goods  
DOT(Department of Transportation) : Not dangerous goods  
MARINE POLLUTANT : Not classified

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**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200

EU REGULATION : CLP Regulation ((EC) No. 1272/2008)

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**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.



# SAFETY DATA SHEET

SDS No.7510-0037

Date

January 20, 2020

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## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Washing Buffer  
NAME OF MANUFACTURER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 7510-11310, 7510-11311, 7510-11312, 7510-11313  
SDS No. : 7510-0037  
Research use only.

## 2. HAZARDS IDENTIFICATION

This product is used for sample preparation in chemical analysis for research and development. Although this product is not dangerous goods, we show some data about chemical substances contained in this product for the information supplement below.

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : ---  
SIGNAL WORD : ---  
HAZARD STATEMENTS : ---  
PRECAUTIONARY STATEMENTS : ---  
OTHER INFORMATION : May possible skin irritation by long-term or prolonged contact with this product.  
Dispose of contents/container in accordance with all applicable regulations.  
MOST IMPORTANT HAZARDS : Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : Buffer(containing 6 % salt)  
SYNONYMS : ---  
CONTENT : ---  
CHEMICAL FORMULA : ---  
CAS No. : ---  
TASCA INVENTORY : ---  
EINECS No. : ---  
EC INDEX No. : ---

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off with soap and plenty of water. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen.  
If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.  
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED : May cause irritation of mucous membranes, respiratory tract, skin and eyes.

## 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, foam, water spray  
FIRE & EXPLOSION HAZARDS : Toxic and irritating dust, fumes or smoke may be emitted.  
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

- PERSONAL PRECAUTIONS** : Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising mist/gas/vapour and avoid contact with skin and eyes.
- ENVIROMENTAL PRECATIONS** : Prevent spills from entering sewers, watercourses or low areas.  
Comply with local disposal regulations.
- METHODS FOR CLEANING UP** : Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

**7. HANDLING AND STORAGE**

- HANDLING** : Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
- STORAGE** : Store away from sunlight in a refrigerator (2 - 10 °C).  
Keep container tightly closed.
- INCOMOPATIBLE PRODUCTS** : Oxidizers and acids

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

- ENGINEERING MEASURES** : Use exhaust ventilation to keep airborne concentrations below exposure limits.  
Use adequate ventilation.
- VENTILATION** : Local Exhaust ; Recommended, Mechanical(General) ; Recommended
- CONTROL PARAMETERS** : Not established
- PERSONAL PROTECTION**
- RESPRATORY PROTECTION** : Safety masks
- HAND PROTECTION** : Safety gloves
- EYE PROTECTION** : Safety glasses(goggles)
- SKIN PROTECTION** : Protective clothing

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- PHYSICAL STATE** : Liquid
- COLOUR** : Clear
- ODOUR** : No data available
- MELTING POINT / FREEZING POINT** : No data available
- BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE** : No data available
- FLAMMABILITY** : No data available
- LOWER AND UPPER EXPLOSION LIMIT / FLAMMABILITY LIMIT** : No data available
- FLASH POINT** : No data available
- AUTO-IGNITION TEMPERATURE** : No data available
- DECOMPOSITION TEMPERATURE** : No data available
- pH** : No data available
- KINEMATIC VISCOSITY** : No data available
- SOLUBILITY** : No data available
- PARTITION COEFFICIENT**
- n-octanol/water (log value) : No data available
- VAPOUR PRESSURE** : No data available
- DENSITY AND/OR RELATIVE DENSITY** : No data available
- RELATIVE VAPOUR DENSITY** : No data available
- PARTICLE CHARACTERISTICS** : Not applicable

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**10. STABILITY AND REACTIVITY**

REACTIVITY : Stable under recommended storage conditions.  
CHEMICAL STABILITY : No data available  
CONDITION TO AVOID : Heat, high temperature, sunlight, open flame  
INCOMPATIBLE MATERIALS : Oxidizers, acids  
HAZARDOUS DECOMPOSITION PRODUCTS  
: No data available

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**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY : No data available  
SKIN CORROSION/IRRITATION : No data available  
EYE DAMAGE/EYE IRRITATION : No data available  
GERM CELL MUTAGENICITY : No data available  
CARCINOGENICITY : No data available  
REPRODUCTIVE TOXICITY : No data available  
SPECIFIC TARGET ORGAN TOXICITY  
: No data available  
ASPIRATION TOXICITY : No data available

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**12. ECOLOGICAL INFORMATION**

ECOTOXICITY : No data available  
BIODEGRADABILITY : No data available  
BIOACCUMULATION POTENTIAL : No data available  
MOBILITY IN SOIL : No data available  
OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

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**13. DISPOSAL INFORMATION**

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

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**14. TRANSPORT INFORMATION**

IATA : Not dangerous goods  
ADR/RID : Not dangerous goods  
DOT(Department of Transportation) : Not dangerous goods  
MARINE POLLUTANT : Not classified

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**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200

EU REGULATION : CLP Regulation ((EC) No. 1272/2008)

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**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.7510-0038

Date

January 20, 2020

1/3 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Elution Buffer  
NAME OF MANUFACTURER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 7510-11310, 7510-11311, 7510-11312, 7510-11313  
SDS No. : 7510-0038  
Research use only.

## 2. HAZARDS IDENTIFICATION

This product is used for sample preparation in chemical analysis for research and development. Although this product is not dangerous goods, we show some data about chemical substances contained in this product for the information supplement below.

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : ---  
SIGNAL WORD : ---  
HAZARD STATEMENTS : ---  
PRECAUTIONARY STATEMENTS : ---  
OTHER INFORMATION : May possible skin irritation by long-term or prolonged contact with this product.  
Dispose of contents/container in accordance with all applicable regulations.  
MOST IMPORTANT HAZARDS : Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : Buffer(containing less than 1 % aminobutyric acid)  
SYNONYMS : ---  
CONTENT : ---  
CHEMICAL FORMULA : ---  
CAS No. : ---  
TASCA INVENTORY : ---  
EINECS No. : ---  
EC INDEX No. : ---

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off with soap and plenty of water. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen.  
If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.  
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED : May cause irritation of mucous membranes, respiratory tract, skin and eyes.

## 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, foam, water spray  
FIRE & EXPLOSION HAZARDS : Toxic and irritating dust, fumes or smoke may be emitted.  
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS : Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising mist/gas/vapour and avoid contact with skin and eyes.
- ENVIROMENTAL PRECATIONS : Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
- METHODS FOR CLEANING UP : Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

7. HANDLING AND STORAGE

- HANDLING : Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
- STORAGE : Store away from sunlight in a refrigerator (2 - 10 °C). Keep container tightly closed.
- INCOMOPATIBLE PRODUCTS : Oxidizers and acids

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- ENGINEERING MEASURES : Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
- VENTILATION : Local Exhaust ; Recommended, Mechanical(General) ; Recommended
- CONTROL PARAMETERS : Not established
- PERSONAL PROTECTION
  - RESPRATORY PROTECTION : Safety masks
  - HAND PROTECTION : Safety gloves
  - EYE PROTECTION : Safety glasses(goggles)
  - SKIN PROTECTION : Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

- PHYSICAL STATE : Liquid
- COLOUR : Clear
- ODOUR : No data available
- MELTING POINT / FREEZING POINT : No data available
- BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE : No data available
- FLAMMABILITY : No data available
- LOWER AND UPPER EXPLOSION LIMIT / FLAMMABILITY LIMIT : No data available
- FLASH POINT : No data available
- AUTO-IGNITION TEMPERATURE : No data available
- DECOMPOSITION TEMPERATURE : No data available
- pH : No data available
- KINEMATIC VISCOSITY : No data available
- SOLUBILITY : No data available
- PARTITION COEFFICIENT
  - n-octanol/water (log value) : No data available
- VAPOUR PRESSURE : No data available
- DENSITY AND/OR RELATIVE DENSITY : No data available
- RELATIVE VAPOUR DENSITY : No data available
- PARTICLE CHARACTERISTICS : Not applicable

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**10. STABILITY AND REACTIVITY**

REACTIVITY : Stable under recommended storage conditions.  
CHEMICAL STABILITY : No data available  
CONDITION TO AVOID : Heat, high temperature, sunlight, open flame  
INCOMPATIBLE MATERIALS : Oxidizers, acids  
HAZARDOUS DECOMPOSITION PRODUCTS : No data available

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**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY : No data available  
SKIN CORROSION/IRRITATION : No data available  
EYE DAMAGE/EYE IRRITATION : No data available  
GERM CELL MUTAGENICITY : No data available  
CARCINOGENICITY : No data available  
REPRODUCTIVE TOXICITY : No data available  
SPECIFIC TARGET ORGAN TOXICITY : No data available  
ASPIRATION TOXICITY : No data available

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**12. ECOLOGICAL INFORMATION**

ECOTOXICITY : No data available  
BIODEGRADABILITY : No data available  
BIOACCUMULATION POTENTIAL : No data available  
MOBILITY IN SOIL : No data available  
OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

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**13. DISPOSAL INFORMATION**

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

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**14. TRANSPORT INFORMATION**

IATA : Not dangerous goods  
ADR/RID : Not dangerous goods  
DOT(Department of Transportation) : Not dangerous goods  
MARINE POLLUTANT : Not classified

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**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200

EU REGULATION : CLP Regulation ((EC) No. 1272/2008)

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**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.7510-0039

Date

January 20, 2020

1/3 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Regeneration Buffer  
NAME OF MANUFACTURER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 7510-11310, 7510-11311, 7510-11312, 7510-11313  
SDS No. : 7510-0039  
Research use only.

## 2. HAZARDS IDENTIFICATION

This product is used for sample preparation in chemical analysis for research and development. Although this product is not dangerous goods, we show some data about chemical substances contained in this product for the information supplement below.

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : ---  
SIGNAL WORD : ---  
HAZARD STATEMENTS : ---  
PRECAUTIONARY STATEMENTS : ---  
OTHER INFORMATION : May possible skin irritation by long-term or prolonged contact with this product.  
Dispose of contents/container in accordance with all applicable regulations.  
MOST IMPORTANT HAZARDS : Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : Buffer(containing less than 0.1 % aminobutyric acid)  
SYNONYMS : ---  
CONTENT : ---  
CHEMICAL FORMULA : ---  
CAS No. : ---  
TASCA INVENTORY : ---  
EINECS No. : ---  
EC INDEX No. : ---

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off with soap and plenty of water. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen.  
If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.

## 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, foam, water spray  
FIRE & EXPLOSION HAZARDS : Toxic and irritating dust, fumes or smoke may be emitted.  
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS : Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising mist/gas/vapour and avoid contact with skin and eyes.
- ENVIROMENTAL PRECATIONS : Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
- METHODS FOR CLEANING UP : Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

7. HANDLING AND STORAGE

- HANDLING : Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
- STORAGE : Store away from sunlight in a refrigerator (2 - 10 °C). Keep container tightly closed.
- INCOMOPATIBLE PRODUCTS : Oxidizers and acids

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- ENGINEERING MEASURES : Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
- VENTILATION : Local Exhaust ; Recommended, Mechanical(General) ; Recommended
- CONTROL PARAMETERS : Not established
- PERSONAL PROTECTION
- RESPRATORY PROTECTION : Safety masks
- HAND PROTECTION : Safety gloves
- EYE PROTECTION : Safety glasses(goggles)
- SKIN PROTECTION : Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

- PHYSICAL STATE : Liquid
- COLOUR : Clear
- ODOUR : No data available
- MELTING POINT / FREEZING POINT : No data available
- BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE : No data available
- FLAMMABILITY : No data available
- LOWER AND UPPER EXPLOSION LIMIT / FLAMMABILITY LIMIT : No data available
- FLASH POINT : No data available
- AUTO-IGNITION TEMPERATURE : No data available
- DECOMPOSITION TEMPERATURE : No data available
- pH : No data available
- KINEMATIC VISCOSITY : No data available
- SOLUBILITY : No data available
- PARTITION COEFFICIENT
- n-octanol/water (log value) : No data available
- VAPOUR PRESSURE : No data available
- DENSITY AND/OR RELATIVE DENSITY : No data available
- RELATIVE VAPOUR DENSITY : No data available
- PARTICLE CHARACTERISTICS : Not applicable



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**10. STABILITY AND REACTIVITY**

REACTIVITY : Stable under recommended storage conditions.  
CHEMICAL STABILITY : No data available  
CONDITION TO AVOID : Heat, high temperature, sunlight, open flame  
INCOMPATIBLE MATERIALS : Oxidizers, acids  
HAZARDOUS DECOMPOSITION PRODUCTS  
: No data available

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**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY : No data available  
SKIN CORROSION/IRRITATION : No data available  
EYE DAMAGE/EYE IRRITATION : No data available  
GERM CELL MUTAGENICITY : No data available  
CARCINOGENICITY : No data available  
REPRODUCTIVE TOXICITY : No data available  
SPECIFIC TARGET ORGAN TOXICITY  
: No data available  
ASPIRATION TOXICITY : No data available

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**12. ECOLOGICAL INFORMATION**

ECOTOXICITY : No data available  
BIODEGRADABILITY : No data available  
BIOACCUMULATION POTENTIAL : No data available  
MOBILITY IN SOIL : No data available  
OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

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**13. DISPOSAL INFORMATION**

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

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**14. TRANSPORT INFORMATION**

IATA : Not dangerous goods  
ADR/RID : Not dangerous goods  
DOT(Department of Transportation) : Not dangerous goods  
MARINE POLLUTANT : Not classified

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**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200

EU REGULATION : CLP Regulation ((EC) No. 1272/2008)

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**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.7510-0040

Date

January 20, 2020

1/3 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Neutralizing Buffer  
NAME OF MANUFACTURER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 7510-11310, 7510-11311, 7510-11312, 7510-11313  
SDS No. : 7510-0040  
Research use only.

## 2. HAZARDS IDENTIFICATION

This product is used for sample preparation in chemical analysis for research and development. Although this product is not dangerous goods, we show some data about chemical substances contained in this product for the information supplement below.

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : - - -  
PRECAUTIONARY STATEMENTS : - - -  
OTHER INFORMATION : May possible skin irritation by long-term or prolonged contact with this product.  
Dispose of contents/container in accordance with all applicable regulations.  
MOST IMPORTANT HAZARDS : Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : Tris-HCl buffer  
SYNONYMS : - - -  
CONTENT : 13%(as Tris)  
CHEMICAL FORMULA : C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>  
CAS No. : 77-86-1  
TASCA INVENTORY : Listed  
EINECS No. : 201-064-4  
EC INDEX No. : Not established

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off with soap and plenty of water. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen.  
If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.  
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED : May cause irritation of mucous membranes, respiratory tract, skin and eyes.

## 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, foam, water spray  
FIRE & EXPLOSION HAZARDS : Toxic and irritating dust, fumes or smoke may be emitted.  
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS : Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising mist/gas/vapour and avoid contact with skin and eyes.
- ENVIROMENTAL PRECATIONS : Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
- METHODS FOR CLEANING UP : Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

7. HANDLING AND STORAGE

- HANDLING : Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
- STORAGE : Store away from sunlight in a refrigerator (2 - 10 °C). Keep container tightly closed.
- INCOMOPATIBLE PRODUCTS : Oxidizers and acids

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- ENGINEERING MEASURES : Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
- VENTILATION : Local Exhaust ; Recommended, Mechanical(General) ; Recommended
- CONTROL PARAMETERS : Not established
- PERSONAL PROTECTION
- RESPRATORY PROTECTION : Safety masks
- HAND PROTECTION : Safety gloves
- EYE PROTECTION : Safety glasses(goggles)
- SKIN PROTECTION : Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

- PHYSICAL STATE : Liquid
- COLOUR : Clear
- ODOUR : No data available
- MELTING POINT / FREEZING POINT : No data available
- BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE : No data available
- FLAMMABILITY : No data available
- LOWER AND UPPER EXPLOSION LIMIT / FLAMMABILITY LIMIT : No data available
- FLASH POINT : No data available
- AUTO-IGNITION TEMPERATURE : No data available
- DECOMPOSITION TEMPERATURE : No data available
- pH : No data available
- KINEMATIC VISCOSITY : No data available
- SOLUBILITY : No data available
- PARTITION COEFFICIENT
- n-octanol/water (log value) : No data available
- VAPOUR PRESSURE : No data available
- DENSITY AND/OR RELATIVE DENSITY : No data available
- RELATIVE VAPOUR DENSITY : No data available
- PARTICLE CHARACTERISTICS : Not applicable

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**10. STABILITY AND REACTIVITY**

REACTIVITY : Stable under recommended storage conditions.  
CHEMICAL STABILITY : No data available  
CONDITION TO AVOID : Heat, high temperature, sunlight, open flame  
INCOMPATIBLE MATERIALS : Oxidizers, acids  
HAZARDOUS DECOMPOSITION PRODUCTS : No data available

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**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY : No data available  
SKIN CORROSION/IRRITATION : No data available  
EYE DAMAGE/EYE IRRITATION : No data available  
GERM CELL MUTAGENICITY : No data available  
CARCINOGENICITY : No data available  
REPRODUCTIVE TOXICITY : No data available  
SPECIFIC TARGET ORGAN TOXICITY : No data available  
ASPIRATION TOXICITY : No data available

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**12. ECOLOGICAL INFORMATION**

ECOTOXICITY : No data available  
BIODEGRADABILITY : No data available  
BIOACCUMULATION POTENTIAL : No data available  
MOBILITY IN SOIL : No data available  
OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

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**13. DISPOSAL INFORMATION**

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

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**14. TRANSPORT INFORMATION**

IATA : Not dangerous goods  
ADR/RID : Not dangerous goods  
DOT(Department of Transportation) : Not dangerous goods  
MARINE POLLUTANT : Not classified

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**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200

EU REGULATION : CLP Regulation ((EC) No. 1272/2008)

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**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.