

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Buffer ViB

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

1.1 Product identifiers

Trade name Buffer ViB

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

Identified uses Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Name Nippon Genetics Europe GmbH
Address Mariaweilerstraße 28-30; 52349 Dueren, Germany
Information contact Dr. Manuel Franke
E-Mail (competent person) mfranke@nippongenetics.de
02421554960 during office hours: Mo-Fr 8:00 - 17:00

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Skin corrosion/irritation Category 2

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
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P264 Wash skin/hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 Take off contaminated clothing and wash before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with all applicable environmental laws and regulations.

Storage

Disposal

2.3 Other Non-GHS Classification

NFPA SCALE (0-4)

Health=0, Flammability=0, Reactivity=0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	CAS No. EC No.	Concentration (%)
Guanidinium chloride	50-01-1	70-80

4. FIRST AID MEASURES

4.1 Description of first aid measures

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

PRODUCT NAME

Buffer ViB

Following eye contact

IF ON EYES: flush the eyes immediately with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get immediate medical advice/attention.

Following skin contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Get medical advice/attention if you feel unwell.

Wash contaminated clothing before reuse.

Following inhalation

IF exposed or concerned: Get medical advice/attention.

Following ingestion

Do not use mouth-to-mouth resuscitation if victim ingested or inhaled. Use proper respiratory medical device.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

No information available.

Risks

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Special treatment

No information available.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use powder fire extinguisher, dry sand or dirt.

5.2 Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

No information available.

5.3 Precautions for fire-fighters

Special protective equipment for firefighters

Wear appropriate protective apparatus.

Extinguish while maintaining safe distance away from fire areas.

5.4 Further information

No information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Note the substances and conditions to avoid

6.2 Environmental precautions

Environmental precautions

Avoid dispersal of spill material and runoff into waterway, sewers, drainage, or contained areas.

6.3 Methods and material for containment and cleaning up

Method for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal as hazardous material.

6.4 Reference to other sections

For personal protection, see Section 8 of the SDS.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling

Do NOT handle until all safety precautions have been read and understood.

Wash handling area thoroughly after handling.

Take caution in opening the container.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

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Specific end use(s)

Carefully reseal the opened container and keep container stand to prevent leaking.

Laboratory chemicals.

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

Appropriate engineering controls

Use appropriate engineering controls such as process enclosure, local exhaust ventilation, or maintaining airborne concentrations below recommended exposure limits.

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling.

Personal protective equipment

Respiratory protection

Wear suitable protection tested and approved under appropriate government standards such as KOSHA. Select protective gear according to the physical and chemical properties of the exposed material.

Suitable eye protection

Wear chemical-resistant eye and face protection tested and approved under appropriate government standards such as KOSHA.

Hand protection

Wear suitable gloves tested and approved under appropriate government standards such as KOSHA. Check gloves before use. Dispose of gloves after use according to relevant regulations and GLP standards. Wash and dry hands.

Skin and body protection

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

Liquid

Color

Colorless

Odor

No odor

Odor threshold

No data available.

pH

No data available.

Melting point/freezing point

No data available.

Initial 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.

Vapor pressure

No data available.

Solubility(ies)

No data available.

Vapor 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.

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Oxidizing properties

No data available.

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.2 Chemical stability and possibility of hazardous reactions

Stable under recommended storage conditions

10.3 Conditions to avoid

Heat, spark, reducing substance.

10.4 Incompatible materials

Strong oxidizing agents, strong bases, strong acids, metals

10.5 Hazardous decomposition products

Guanidinium chloride

Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral

No data available.

Dermal

No data available.

Inhalation

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory sensitisation

No data available.

Skin sensitisation

No data available.

Carcinogenicity

IARC

No data available.

OSHA

No data available.

ACGIH

No data available.

NTP

No data available.

EU CLP

No data available.

Germ cell mutagenicity

No data available.

Reproductive toxicity

STOT (SE)

No data available.

STOT (RE)

No data available.

Aspiration hazard

No data available.

11.2 Routes of exposure

Routes of exposure

May cause irritation.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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 Results of PBT and vPvB assessment

No data available.

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12.6 Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose in accordance with all applicable environmental laws and regulations.

13.2 Disposal considerations

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

14. TRANSPORT INFORMATION

14.1 UN number

ARD/RID	Not regulated as a dangerous good
IMDG	Not regulated as a dangerous good
IATA	Not regulated as a dangerous good

14.2 UN proper shipping name

ARD/RID	Not applicable.
IMDG	Not applicable.
IATA	Not applicable.

14.3 Transport hazard class(es)

ARD/RID	Not applicable.
IMDG	Not applicable.
IATA	Not applicable.

14.4 Packing group

ARD/RID	Not applicable.
IMDG	Not applicable.
IATA	Not applicable.

14.5 Environmental hazards

ARD/RID	No data available.
IMDG	No data available.
IATA	No data available.

14.6 Special precautions for users

For personal protection see section 8.

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

15.2 Toxic Chemicals Control Act

Not applicable

15.3 Safety Control of Dangerous Substances Act

Not applicable

15.4 Wastes Control Act

Not applicable

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EUROPE**

PRODUCT NAME

Buffer ViB

15.5 Other requirements in domestic and other countries

In accordance with international laws and regulations of country.

16. OTHER INFORMATION

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since NIPPON Genetics EUROPE GmbH cannot control the actual methods, volumes, or conditions of use, the company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

Questions about the information found on this MSDS should be directed to info@nippongenetics.com

- END OF SAFETY DATA SHEET -

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

Product Name

Buffer ViL

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

Trade name Buffer ViL

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

Identified uses Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Name Nippon Genetics Europe GmbH
Address Mariaweilerstraße 28-30; 52349 Dueren, Germany
Information contact Dr. Manuel Franke
E-Mail (competent person) mfranke@nippongenetics.de
02421554960 during office hours: Mo-Fr 8:00 - 17:00

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Acute oral toxicity Category 4

Acute dermal toxicity Category 4

Acute inhalation toxicity Category 4

Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1

Chronic aquatic toxicity Category 3

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.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Response

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

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P330 Rinse mouth.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

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

The concentration of ingredients with unknown toxicity is no higher than 0.1%.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	CAS No.	Concentration (%)
Guanidine Thiocyanate	593-84-0	65 - 75

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	In the case of contact with skin (or hair), remove immediately all contaminated clothing. Rinse skin with water/shower. Immediately seek medical advice/attention if you feel unwell. Wash before reuse.
Following inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Following ingestion	If swallowed, rinse mouth, do NOT attempt cardiopulmonary resuscitation. If exposed, seek medical advice/attention. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled. Use proper respiratory medical device.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
Risks	No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Special treatment	The medical personnel need to know what the material is and what first aid measures have been recommended and used.
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5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Dry powder
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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.

5.4 Further information

No information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear respiratory protection. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Ensure adequate ventilation. Evacuate personnel to safe areas.
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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. Discharge into the environment must be avoided.
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6.3 Methods and material for containment and cleaning up

Method for cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. 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. Avoid formation of dust and aerosols. 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	Keep container tightly closed in a dry and well-ventilated place. Do not store near acids. 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

Contains no substances with occupational exposure limit values.

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 tested and approved under appropriate government standard such as KOSHA.
Suitable eye protection	Wear chemical-resistant eye and face protection chemical safety goggles tested and approved under appropriate government standards such as KOSHA.
Hand protection	Wear suitable gloves tested and approved under appropriate government standards such as KOSHA. Check gloves before use. Dispose of gloves after use according to relevant regulations and GLP standards. Wash and 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	Colorlessness
Odor	Odorless

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 Reactivity

Stable under normal conditions.

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat, spark, reducing substance.

10.5 Materials to avoid

Strong acids, Strong oxidizing agents, Metal, Strong alkaline

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

A. Product No data available.

B. Components

GUANIDINE THIOCYANATE

LD50 Oral - Rat - 593 mg/kg
LD50 Intraperitoneal - Mouse - 300 mg/kg

Skin corrosion/irritation	No data available.
Serious eye damage/eye irritation	No data available.
Respiratory sensitisation	No data available.
Skin sensitiation	No data available.
Carcinogenicity	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Germ cell mutagenicity	No data available.
Reproductive toxicity	No data available.
Oral	No data available.
Dermal	No data available.
Inhalation	No data available.
Specific target organ toxicity - single exposure	No data available.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

A. Product No data available.

B. Components

GUANIDINE THIOCYANATE EC50 - Daphnia (water flea) - 42.4 mg/l - 48 h

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 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

A. Product No data available.

B. Components

GUANIDINE THIOCYANATE Harmful to aquatic life with long lasting effects.

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

ARD/RID/IMDG/IATA

Classified as dangerous in the meaning of transport regulations.

14.1 UN number	Not regulated as a dangerous goods.
14.2 UN Proper shipping name	Not regulated as a dangerous good.
14.3 Transport hazard class(es)	Not regulated as a dangerous good.
14.4 Packing group	Not regulated as a dangerous good.
14.5 Environmental hazards	Not regulated as a dangerous good.
14.6 Special precautions for user	

F-A

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

S-B

15. REGULATORY INFORMATION

15.1 Industrial Safety and Health Act

Not applicable

15.2 Toxic Chemicals Control Act

Not applicable

15.3 Safety Control of Dangerous Substances Act

Not applicable

15.4 Wastes Control Act

Not applicable

15.5 Other requirements in domestic and other countries

In accordance with international laws and regulations of country.

16. OTHER INFORMATION

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since NIPPON Genetics EUROPE GmbH cannot control the actual methods, volumes, or conditions of use, the company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

Questions about the information found on this MSDS should be directed to info@nippongenetics.com.

- END OF SAFETY DATA SHEET -

MATERIAL SAFETY DATA SHEET



NIPPON Genetics
EUROPE

Product Name

Buffer ViW1

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

1.1 Product identifier

Product name Buffer ViW1

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 Nippon Genetics Europe GmbH
Address Mariaweilerstraße 28-30; 52351 Dueren, Germany
Information contact Dr. Manuel Franke
E-Mail (competent person) mfranke@nippongenetics.de
02421554960 during office hours: Mo-Fr 8:00 - 17:00

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Acute oral toxicity Category 4

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

Specific target organ systemic toxicity (single exposure) Category 3

2.2 Label elements

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

Hazard pictograms



Signal word Warning

Hazard statements

H302 Harmful if swallowed.

H315 Cause skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

Prevention

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

P264 Wash skin/hands thoroughly after handling.

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

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

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

Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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 POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P332+P313 IF skin irritation occurs: Get medical advice/attention.

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

P362 Take off contaminated clothing and wash before reuse.

Storage

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

Disposal

P405 Store locked up.

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

2.3 Other Non-GHS Classification

NFPA SCALE (0-4)

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	CAS No.	Concentration (%)
Guanidium chloride	50-01-1	70 ~ 80

4. FIRST AID MEASURES

4.1 Description of first aid measures

General informations	Notify doctor/physician about the substance to take necessary actions.
Following inhalation	If exposed to large amounts of dust or fume, remove with clean air. In case of coughing or other symptoms, get medical advice/attention.
Following skin contact	In case of contact with affected area, immediately flush skin or eyes with water for at least 20 minutes. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.
Following eye contact	Immediately flush the eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Following ingestion	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled. Use proper respiratory medical device.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
Risks	Harmful if swallowed. Causes serious eye damage. Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

Special treatment	No information available.
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5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Use powder fire extinguisher, dry sand or dirt.
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5.2 Special hazards arising from the substance or mixture

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

Special protective equipment for firefighters	Wear appropriate protective apparatus. Extinguish while maintaining safe distance away from fire areas.
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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

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Immediately clean spills and see section 5.3.
Stop leak if safe to do so.
Note the substances and conditions to avoid

6.2 Environmental precautions

Environmental precautions

Avoid dispersal of spill material and runoff into waterway, sewers, drainage, or contained areas.

6.3 Methods and material for containment and cleaning up

Method for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal as hazardous material.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Do not eat, drink or smoke when using this product.
Empty containers may retain product residue and can be hazardous. Observe all precautionary measures on SDS and product labels.
Take caution in handling and storage.
Take caution in opening the container.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a well-ventilated area. Keep the container tightly sealed.

7.3 Specific end use(s)

Specific end use(s)

Laboratory chemicals.

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

Appropriate engineering controls

Use appropriate engineering controls such as process enclosure, local exhaust ventilation, or maintaining airborne concentrations below recommended exposure limits.
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling.

Personal protective equipment

Respiratory protection

Wear suitable protection tested and approved under appropriate government standards such as KOSHA. Select protective gear according to the physical and chemical properties of the exposed material.

Suitable eye protection

Wear chemical-resistant eye and face protection tested and approved under appropriate government standards such as KOSHA.

Hand protection

Wear suitable gloves tested and approved under appropriate government standards such as KOSHA. Check gloves before use. Dispose of gloves after use according to relevant regulations and GLP standards. Wash and dry hands.

Skin and body protection

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

liquid

Color

Colorless

Odor

No data available

Odour Threshold

No data available

pH

7.0 – 8.0

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	not determined
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

10.4 Conditions to avoid

Heat, spark, reducing substance.

10.5 Incompatible materials

Strong oxidizing agents, strong bases, strong acids, metals

10.6 Hazardous decomposition products

Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

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 sensitisation No data available.

Skin sensitisation No data available.

Carcinogenicity

KOSHA No data available.

Korean Ministry of Employment and Labor No data available.

IARC	No data available.
OSHA	No data available.
ACGIH	No data available.
NTP	No data available.
EU CLP	No data available.
Germ cell mutagenicity	No data available.
Reproductive toxicity	No data available.
STOT (SE)	Produces irritation to the respiratory system.
STOT (RE)	No data available.
Aspiration hazard	Produces irritation to the respiratory system.

11.2 Routes of exposure

May cause irritation.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	No data available
Toxicity to Crustacea	No data available
Toxicity to Algae	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 Results of PBT and vPvB assessment

No data available

12.6 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 No.

ARD/RID	Not regulated as a dangerous good
IMDG	Not regulated as a dangerous good
IATA	Not regulated as a dangerous good

14.2 UN Proper shipping name

ARD/RID	Not applicable.
IMDG	Not applicable.
IATA	Not applicable.

14.3 Transport hazard class(es)

ARD/RID	Not applicable.
IMDG	Not applicable.
IATA	Not applicable.

14.4 Packing group

ARD/RID	Not applicable.
IMDG	Not applicable.
IATA	Not applicable.

14.5 Environmental hazards

ARD/RID	No data available
IMDG	No data available
IATA	No data available

14.6 Special precautions for user

For personal protection see section 8.

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 Safety, health and environmental regulations/legislation specific for the substance or mixture

The Industrial Safety and Health Law in Korea	No data available.
Toxic Chemical Control Act	No data available.
Dangerous Material Safety Control Act	No data available.
Controlled Hazardous Substances	No data available.
Other requirements in domestic and other countries	In accordance with international laws and regulations of country.

16. OTHER INFORMATION

Issued date

03.04.2020

Revision number

1

Revision date

03.04.2021

Reference

Corporate Solution From Thomson Micromedex
 ECB-ESIS (European Chemical Substances Information System)
 ECOTOX Database, EPA
 IUCLID Chemical Data Sheet
 International Chemical Safety Cards (ICSC)
 TOXNET, U.S. National Library of Medicine
 The Chemical Database, The Department of Chemistry at the University of Akron
 Industrial poisoning handbook, Shin Kwang Publishing Co.
 Hazardous materials information management system, National Emergency Management
 Chemicals information system, National Institute of Environmental Research

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Questions about the information found on this MSDS should be directed to info@nippongenetics.com

– END OF SAFETY DATA SHEET –

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Buffer ViW2

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

1.1 Product identifiers

Trade name Buffer ViW2

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

Identified uses Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Name Nippon Genetics Europe GmbH
Address Mariaweilerstraße 28-30; 52349 Dueren, Germany
Information contact Dr. Manuel Franke
E-Mail (competent person) mfranke@nippongenetics.de
02421554960 during office hours: Mo-Fr 8:00 - 17:00

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 hazards

NFPA classification No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name

CAS No.
EC No.

Concentration (%)

No hazardous substance.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information Notify doctor/physician about the substance to take necessary actions.
Following eye contact In case of contact with substance, flush the eyes immediately with water for at least 20 minutes.
Immediately seek medical advice/attention.
Following skin contact In case of contact with substance, flush the skin immediately with water for at least 20 minutes.
Remove contaminated clothing and footwear and isolate contaminated areas.
Following inhalation Remove the victim into fresh air.
If experiencing symptoms, get medical advice/attention.
Following ingestion In case of ingestion, rinse mouth. Do NOT induce vomiting.
If exposed or concerned, get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Buffer VIW2

Risks

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Special treatment

No information available.

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)

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.

Inhalation of substance may be hazardous.

5.3 Precautions for fire-fighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus when fighting fire.

Spills may cause contamination.

If safe to do, remove container from fire area.

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.

6.2 Environmental precautions

Environmental precautions

Do NOT directly release into the environment.

6.3 Methods and material for containment and cleaning up

Method for cleaning up

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection, see Section 8 of the SDS.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling

Avoid prolonged or repeated contact with skin.

Avoid contact with the eyes, skin, and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the container tightly sealed.

Keep cool. Protect from sunlight.

7.3 Specific end use(s)

Specific end use(s)

Laboratory chemicals.

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

Appropriate engineering controls

No information available.

Personal protective equipment

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Buffer ViW2

Respiratory protection
Suitable eye protection
Hand protection
Skin and body protection

No information available.
Wear chemical-resistant eye and face protection.
Wear suitable chemical-resistant gloves.
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	No data available.
Odor threshold	No data available.
pH	7 –8
Melting point/freezing point	No data available.
Initial 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	–/–
Vapor pressure	No data available.
Solubility(ies)	No data available.
Vapor 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 safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity if stored and applied as directed.
Stable at ambient conditions.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

May evolve corrosive/toxic fumes when heated.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

MATERIAL SAFETY DATA SHEET



NIPPON Genetics
EUROPE

PRODUCT NAME

Buffer ViW2

No data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral

No data available.

Dermal

No data available.

Inhalation

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory sensitisation

No data available.

Skin sensitisation

No data available.

Carcinogenicity

KOSHA

No data available.

Korean Ministry of Employment and Labor

No data available.

IARC

No data available.

OSHA

No data available.

ACGIH

No data available.

NTP

No data available.

EU CLP

No data available.

Germ cell mutagenicity

No data available.

Reproductive toxicity

No data available.

STOT (SE)

No data available.

STOT (RE)

No data available.

Aspiration hazard

No data available.

11.2 Routes of exposure

No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to Fish

No data available.

Toxicity to Crustacea

No data available.

Toxicity to Algae

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 Results of PBT and vPvB assessment

No data available.

12.6 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.

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Buffer ViW2

13.2 Disposal considerations

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

14. TRANSPORT INFORMATION

14.1 UN number

ARD/RID

This product is NOT categorized under UN number

IMDG

This product is NOT categorized under UN number

IATA

This product is NOT categorized under UN number

14.2 UN proper shipping name

ARD/RID

Not applicable.

IMDG

Not applicable.

IATA

Not applicable.

14.3 Transport hazard class(es)

ARD/RID

Not applicable.

IMDG

Not applicable.

IATA

Not applicable.

14.4 Packing group

ARD/RID

Not applicable.

IMDG

Not applicable.

IATA

Not applicable.

14.5 Environmental hazards

ARD/RID

No data available.

IMDG

No data available.

IATA

No data available.

14.6 Special precautions for users

For personal protection see section 8.

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

15.2 Toxic Chemicals Control Act

Not applicable

15.3 Safety Control of Dangerous Substances Act

Not applicable

15.4 Wastes Control Act

Not applicable

15.5 Other requirements in domestic and other countries

In accordance with international laws and regulations of country.

16. OTHER INFORMATION

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Buffer ViW2

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since NIPPON Genetics EUROPE GmbH cannot control the actual methods, volumes, or conditions of use, the company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

Questions about the information found on this MSDS should be directed to info@nippongenetics.com

- END OF SAFETY DATA SHEET -

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MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Nuclease-Free Water

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

1.1 Product identifiers

Trade name Nuclease-Free Water

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

Identified uses Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Name Nippon Genetics Europe GmbH
Address Mariaweilerstraße 28-30; 52349 Dueren, Germany
Information contact Dr. Manuel Franke
E-Mail (competent person) mfranke@nippongenetics.de
02421554960 during office hours: Mo-Fr 8:00 - 17:00

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 hazards

NFPA classification No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	CAS No.	Concentration (%)
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No hazardous substance.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information No information available.
Following eye contact No information available.
Following skin contact No information available.
Following inhalation If victim is not breathing, perform cardiopulmonary resuscitation (CPR).
Following ingestion No information available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Special treatment No information available.

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Nuclease-Free Water

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)

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 when fighting fire.

5.4 Further information

No information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

No data available.

6.2 Environmental precautions

Environmental precautions

No data available.

6.3 Methods and material for containment and cleaning up

Method for cleaning up

Clean up with suitable absorbent (cloth, fleece).

6.4 Reference to other sections

For personal protection, see Section 8 of the SDS.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling

No data available.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special storage required.

7.3 Specific end use(s)

Specific end use(s)

Laboratory chemicals.

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

Appropriate engineering controls

No information available.

Personal protective equipment

Respiratory protection

No information available.

Suitable eye protection

No information available.

Hand protection

No information available.

Skin and body protection

No information available.

9.1 Information on basic physical and chemical properties

Physical state

Liquid

Color

Colorless.

Odor

No data available.

Odor threshold

No data available.

pH

6.0 – 8.0

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Nuclease-Free Water

Melting point/freezing point	0 °C
Initial boiling point/boiling range	100 °C
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	- / -
Vapor pressure	No data available.
Solubility(ies)	No data available.
Vapor 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	18.02 g/mol
Explosive properties	No data available.
Oxidizing properties	No data available.

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity if stored and applied as directed.

Stable at ambient conditions.

10.2 Chemical stability

No reactivity if stored and applied as directed.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral

No data available.

Dermal

No data available.

Inhalation

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory sensitisation

No data available.

Skin sensitisation

No data available.

Carcinogenicity

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Nuclease-Free Water

KOSHA	No data available.
Korean Ministry of Employment and Labor	No data available.
IARC	No data available.
OSHA	No data available.
ACGIH	No data available.
NTP	No data available.
EU CLP	No data available.
Germ cell mutagenicity	No data available.
Reproductive toxicity	No data available.
STOT (SE)	No data available.
STOT (RE)	No data available.
Aspiration hazard	No data available.

11.2 Routes of exposure

No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to Fish	No data available.
Toxicity to Crustacea	No data available.
Toxicity to Algae	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 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

This substance can be disposed of as waste water after neutralization, 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

ARD/RID	This product is NOT categorized under UN number
IMDG	This product is NOT categorized under UN number
IATA	This product is NOT categorized under UN number

14.2 UN proper shipping name

ARD/RID	No data available.
IMDG	No data available.
IATA	No data available.

14.3 Transport hazard class(es)

MATERIAL SAFETY DATA SHEET



**NIPPON Genetics
EUROPE**

PRODUCT NAME

Nuclease-Free Water

ARD/RID	No data available.
IMDG	No data available.
IATA	No data available.

14.4 Packing group

ARD/RID	No data available.
IMDG	No data available.
IATA	No data available.

14.5 Environmental hazards

ARD/RID	No data available.
IMDG	No data available.
IATA	No data available.

14.6 Special precautions for users

Emergency Schedule (EmS) – Fire	NOT dangerous goods.
Emergency Schedule (EmS) – Spillage	NOT dangerous goods.

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

15.2 Toxic Chemicals Control Act

Not applicable

15.3 Safety Control of Dangerous Substances Act

Not applicable

15.4 Wastes Control Act

Not applicable

15.5 Other requirements in domestic and other countries

In accordance with international laws and regulations of country.

16. OTHER INFORMATION

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since NIPPON Genetics EUROPE GmbH cannot control the actual methods, volumes, or conditions of use, the company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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– END OF SAFETY DATA SHEET –