# KIT SAFETY DATA SHEET



**Kit Product Name** Profinia Native IMAC Buffer Kit

Kit Catalogue Number(s) 6200221

**Revision date** 05-Dec-2023

# Kit Contents

| Catalogue Number(s)         | Product Name                   |
|-----------------------------|--------------------------------|
| 6200207, 10005916           | Native IMAC Wash Buffer 2      |
| 6200205, 10005915           | Native IMAC Lysis/Bind Buffer  |
| 6200206                     | Native IMAC Wash Buffer 1      |
| 6200208, 10005917           | Native IMAC Elution Buffer, 2x |
| 6200216, 10005918           | Profinia Desalting Buffer 5X   |
| 6200217, 10006097           | Cleaning Solution 1, 2x        |
| 6200218, 10006098, 10006564 | Cleaning Solution 2, 4x        |
| 6200219, 10006099           | Profinia Storage Solution      |

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# SAFETY DATA SHEET

**Legal Entity / Contact Address** 

Pathumwan, Bangkok 10330

Thailand

1st and 2nd Floor, Lumpini 1 Building 239/2, Rajdamri Road, Lumpini,

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name Native IMAC Wash Buffer 2

Revision date 12-Oct-2022

Revision Number 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product Name** Native IMAC Wash Buffer 2

Catalogue Number(s) 6200207, 10005916

Other means of identification

Mixture Pure substance/mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd.

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

+66 2 652 8313

ctsthailand@bio-rad.com

Emergency telephone number

**Technical Service** 

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

### **SECTION 2: Hazards identification**

# **Emergency Overview**

Irritating to skin

Odour Odourless Physical state Liquid **Appearance** aqueous solution

### Classification of the substance or mixture

| Skin corrosion/irritation | Category 3  |
|---------------------------|-------------|
| Reproductive toxicity     | Category 1B |

Label elements



Signal word Danger

### **Hazard statements**

Causes mild skin irritation

May damage fertility or the unborn child

### **Precautionary statements**

#### Prevention

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

#### Response

IF exposed or concerned: Get medical advice/attention If skin irritation occurs: Get medical advice/attention

#### **Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Physical and chemical hazards

Not applicable.

#### **Health hazards**

Immediate Health Effects: Causes skin irritation (pain, redness and swelling).

Chronic effects: Contains a known or suspected reproductive toxin.

### **Environmental hazards**

Not applicable

### Other hazards which do not result in classification

Not applicable

# SECTION 3: Composition/information on ingredients

### Substance

Not applicable.

### <u>Mixture</u>

| Chemical name                         | Weight-%    | CAS No    |
|---------------------------------------|-------------|-----------|
| Water                                 | 50 - 100    | 7732-18-5 |
| Potassium chloride                    | 2.5 - 5     | 7447-40-7 |
| Phosphoric acid, potassium salt (1:1) | 1 - 2.5     | 7778-77-0 |
| 1-Imidazole                           | 0.1 - 0.299 | 288-32-4  |

### **SECTION 4: First aid measures**

### **Description of necessary first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

Skin contact Wash skin with soap and water.

Rinse mouth thoroughly with water. Ingestion

Most important symptoms and effects, both acute and delayed Prolonged contact may cause redness and irritation.

For emergency responders No information available.

Treat symptomatically. Note to doctors

# **SECTION 5: Firefighting measures**

**Extinguishing media** 

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

No information available. Unsuitable extinguishing media

Specific hazards arising from the

chemical

No information available.

Special protective actions for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** See section 8 for more information.

Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled

containers.

hazards

<u>Precautions to prevent secondary</u> Clean contaminated objects and areas thoroughly observing environmental regulations.

### SECTION 7: Handling and storage

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with Precautions for safe handling

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. See Section 8 for

information on appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities Store locked up. Store according to product and label instructions.

Incompatible materials None known based on information supplied.

### SECTION 8: Exposure controls/personal protection

### Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

See section 16 for terms and abbreviations Note

### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Monitoring and observation processes

No applicable information was found.

Showers **Engineering controls** 

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing.

Hand protection Wear suitable gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

# SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

aqueous solution **Appearance** Colour colourless Physical state Liquid Odour Odourless

No information available **Odour threshold** 

Property Values Remarks • Method

рH 8

Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known No data available Flash point None known **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressure No data available None known Relative vapour density No data available None known No data available Relative density None known

Miscible in water Water solubility

Solubility(ies) No data available None known **Partition coefficient** No data available None known No data available **Autoignition temperature** None known No data available None known **Decomposition temperature** Kinematic viscosity No data available None known

Dynamic viscosity No data available None known

Additional information

Explosive properties Not applicable Oxidising properties Not applicable

# SECTION 10: Stability and reactivity

<u>Stability</u> Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Conditions to avoid None known based on information supplied.

<u>Incompatible materials</u> None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# SECTION 11: Toxicological information

**Acute toxicity** 

Numerical measures of toxicity

### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 61,611.40 mg/kg ATEmix (inhalation-dust/mist) 64.30 mg/l

**Component Information** 

| Chemical name                         | Oral LD50          | Dermal LD50 | Inhalation LC50       |
|---------------------------------------|--------------------|-------------|-----------------------|
| Water                                 | > 90 mL/kg (Rat)   | -           | -                     |
| Potassium chloride                    | = 2600 mg/kg (Rat) | -           | -                     |
| Phosphoric acid, potassium salt (1:1) | = 3200 mg/kg (Rat) | -           | > 0.83 mg/L (Rat) 4 h |
| 1-Imidazole                           | = 220 mg/kg (Rat)  | -           | -                     |

**Skin corrosion/irritation** Classification based on data available for ingredients. May cause skin irritation.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

Specific target organ toxicity —

single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity — Based on available data, the classification criteria are not met.

repeated exposure

**Aspiration hazard**Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

### **Ecotoxicity**

**Unknown aquatic toxicity** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name      | Algae/aquatic plants     | Fish                          | Crustacea                    |
|--------------------|--------------------------|-------------------------------|------------------------------|
| Potassium chloride | EC50: =2500mg/L (72h,    | LC50: =1060mg/L (96h, Lepomis | EC50: =825mg/L (48h, Daphnia |
|                    | Desmodesmus subspicatus) | macrochirus)                  | magna)                       |
|                    |                          | LC50: 750 - 1020mg/L (96h,    | EC50: =83mg/L (48h, Daphnia  |
|                    |                          | Pimephales promelas)          | magna)                       |
| 1-Imidazole        | EC50: =130mg/L (72h,     | -                             | EC50: =341.5mg/L (48h,       |
|                    | Desmodesmus subspicatus) |                               | Daphnia magna)               |
|                    | EC50: =82mg/L (96h,      |                               |                              |
|                    | Desmodesmus subspicatus) |                               |                              |

<u>Persistence and degradability</u> No information available.

Bioaccumulative potential There is no data for this product.

**Component Information** 

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| 1-Imidazole   | -0.02                 |

Mobility in soil No information available.

### **SECTION 13: Disposal considerations**

<u>Waste chemicals</u> Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# **SECTION 14: Transport information**

<u>IMDG</u> Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

<u>IATA</u> Not regulated

<u>China</u> Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

### **SECTION 15: Regulatory information**

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

#### **National regulations**

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors: Not applicable. Catalogue of occupational diseases: Not applicable.

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals Not applicable.

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

List of hazardous chemicals under priority management Not applicable

Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China Not applicable

Measures for the Environmental Management of New Chemical Substances

**IECSC - China Inventory of Existing Chemical Substances** Contact supplier for inventory compliance status.

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **SECTION 16: Other information**

**Prepared By** Bio-Rad Laboratories, Environmental Health and Safety

**Revision date** 12-Oct-2022

**Revision Note** Reformatted and updated existing information.

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL

Ceiling Maximum limit value Skin designation

Carcinogen

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 



# SAFETY DATA SHEET

**Legal Entity / Contact Address** 

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Thailand

1st and 2nd Floor, Lumpini 1 Building 239/2, Rajdamri Road, Lumpini,

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name Native IMAC Lysis/Bind Buffer

Revision date 12-Oct-2022

Revision Number 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product Name** Native IMAC Lysis/Bind Buffer

Catalogue Number(s) 6200205, 10005915

Other means of identification

Mixture Pure substance/mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd.

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

**Technical Service** +66 2 652 8313

ctsthailand@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

### **SECTION 2: Hazards identification**

# **Emergency Overview**

Irritating to skin

Odour Odourless Physical state Liquid **Appearance** aqueous solution

### Classification of the substance or mixture

| Skin corrosion/irritation | Category 3  |
|---------------------------|-------------|
| Reproductive toxicity     | Category 1B |

Label elements



Signal word Danger

### **Hazard statements**

Causes mild skin irritation

May damage fertility or the unborn child

### **Precautionary statements**

#### Prevention

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

#### Response

IF exposed or concerned: Get medical advice/attention If skin irritation occurs: Get medical advice/attention

#### **Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Physical and chemical hazards

Not applicable.

#### **Health hazards**

Immediate Health Effects: Causes skin irritation (pain, redness and swelling).

Chronic effects: Contains a known or suspected reproductive toxin.

### **Environmental hazards**

Not applicable

### Other hazards which do not result in classification

Not applicable

# SECTION 3: Composition/information on ingredients

### Substance

Not applicable.

### <u>Mixture</u>

| Chemical name                         | Weight-%    | CAS No    |
|---------------------------------------|-------------|-----------|
| Water                                 | 50 - 100    | 7732-18-5 |
| Potassium chloride                    | 2.5 - 5     | 7447-40-7 |
| Phosphoric acid, potassium salt (1:1) | 1 - 2.5     | 7778-77-0 |
| 1-Imidazole                           | 0.1 - 0.299 | 288-32-4  |

### **SECTION 4: First aid measures**

### **Description of necessary first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

Skin contact Wash skin with soap and water.

Rinse mouth thoroughly with water. Ingestion

Most important symptoms and effects, both acute and delayed Prolonged contact may cause redness and irritation.

For emergency responders No information available.

Treat symptomatically. Note to doctors

# **SECTION 5: Firefighting measures**

**Extinguishing media** 

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

No information available. Unsuitable extinguishing media

Specific hazards arising from the

chemical

No information available.

Special protective actions for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** See section 8 for more information.

Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled

containers.

hazards

<u>Precautions to prevent secondary</u> Clean contaminated objects and areas thoroughly observing environmental regulations.

### SECTION 7: Handling and storage

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with Precautions for safe handling

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. See Section 8 for

information on appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities Store locked up. Store according to product and label instructions.

Incompatible materials None known based on information supplied.

### SECTION 8: Exposure controls/personal protection

### Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Note See section 16 for terms and abbreviations

### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Monitoring and observation processes

No applicable information was found.

Engineering controls Showers

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing.

Hand protection Wear suitable gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

# **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance aqueous solution
Colour colourless
Physical state Liquid
Odour Odourless

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks</u> • <u>Method</u>

pH 8

Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known No data available Flash point None known **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressureNo data availableNone knownRelative vapour densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility Miscible in water

Solubility(ies)
No data available
None known
Partition coefficient
No data available
None known
Autoignition temperature
No data available
None known
Decomposition temperature
No data available
None known
No data available
None known
No data available
None known

Dynamic viscosity No data available None known

Additional information

Explosive properties Not applicable
Oxidising properties Not applicable

# SECTION 10: Stability and reactivity

<u>Stability</u> Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Conditions to avoid None known based on information supplied.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

### **SECTION 11: Toxicological information**

**Acute toxicity** 

Numerical measures of toxicity

### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 61,611.40 mg/kg ATEmix (inhalation-dust/mist) 64.30 mg/l

**Component Information** 

| Chemical name                         | Oral LD50          | Dermal LD50 | Inhalation LC50       |
|---------------------------------------|--------------------|-------------|-----------------------|
| Water                                 | > 90 mL/kg (Rat)   | -           | -                     |
| Potassium chloride                    | = 2600 mg/kg (Rat) | -           | -                     |
| Phosphoric acid, potassium salt (1:1) | = 3200 mg/kg (Rat) | -           | > 0.83 mg/L (Rat) 4 h |
| 1-Imidazole                           | = 220 mg/kg (Rat)  | -           | -                     |

**Skin corrosion/irritation** Classification based on data available for ingredients. May cause skin irritation.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

Specific target organ toxicity —

single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity — Based on available data, the classification criteria are not met.

repeated exposure

Aspiration hazard Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

### **Ecotoxicity**

**Unknown aquatic toxicity** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name      | Algae/aquatic plants     | Fish                          | Crustacea                    |
|--------------------|--------------------------|-------------------------------|------------------------------|
| Potassium chloride | EC50: =2500mg/L (72h,    | LC50: =1060mg/L (96h, Lepomis | EC50: =825mg/L (48h, Daphnia |
|                    | Desmodesmus subspicatus) | macrochirus)                  | magna)                       |
|                    |                          | LC50: 750 - 1020mg/L (96h,    | EC50: =83mg/L (48h, Daphnia  |
|                    |                          | Pimephales promelas)          | magna)                       |
| 1-Imidazole        | EC50: =130mg/L (72h,     | -                             | EC50: =341.5mg/L (48h,       |
|                    | Desmodesmus subspicatus) |                               | Daphnia magna)               |
|                    | EC50: =82mg/L (96h,      |                               |                              |
|                    | Desmodesmus subspicatus) |                               |                              |

<u>Persistence and degradability</u> No information available.

Bioaccumulative potential There is no data for this product.

**Component Information** 

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| 1-Imidazole   | -0.02                 |

Mobility in soil No information available.

### **SECTION 13: Disposal considerations**

Waste chemicals Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# **SECTION 14: Transport information**

<u>IMDG</u> Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA Not regulated

<u>China</u> Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

### **SECTION 15: Regulatory information**

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

### **National regulations**

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors: Not applicable. Catalogue of occupational diseases: Not applicable.

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals Not applicable.

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

List of hazardous chemicals under priority management Not applicable

Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China Not applicable

Measures for the Environmental Management of New Chemical Substances

**IECSC - China Inventory of Existing Chemical Substances**Contact supplier for inventory compliance status.

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **SECTION 16: Other information**

**Prepared By** Bio-Rad Laboratories, Environmental Health and Safety

**Revision date** 12-Oct-2022

**Revision Note** Reformatted and updated existing information.

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL

Ceiling Maximum limit value Skin designation

Carcinogen

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

### **Disclaimer**

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**End of Safety Data Sheet** 



# SAFETY DATA SHEET

**Legal Entity / Contact Address** 

Pathumwan, Bangkok 10330

Thailand

1st and 2nd Floor, Lumpini 1 Building 239/2, Rajdamri Road, Lumpini,

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name Native IMAC Wash Buffer 1

Revision date 12-Oct-2022

Revision Number 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product Name** Native IMAC Wash Buffer 1

6200206 Catalogue Number(s)

Other means of identification

Mixture Pure substance/mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd.

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

**Technical Service** +66 2 652 8313

ctsthailand@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

### **SECTION 2: Hazards identification**

# **Emergency Overview**

Irritating to skin

Odour Odourless Physical state Liquid **Appearance** aqueous solution

### Classification of the substance or mixture

| Skin corrosion/irritation | Category 3  |
|---------------------------|-------------|
| Reproductive toxicity     | Category 1B |

Label elements



Signal word Danger

### **Hazard statements**

Causes mild skin irritation

May damage fertility or the unborn child

### **Precautionary statements**

#### Prevention

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

#### Response

IF exposed or concerned: Get medical advice/attention If skin irritation occurs: Get medical advice/attention

#### **Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Physical and chemical hazards

Not applicable.

#### **Health hazards**

Immediate Health Effects: Causes skin irritation (pain, redness and swelling).

Chronic effects: Contains a known or suspected reproductive toxin.

### **Environmental hazards**

Not applicable

### Other hazards which do not result in classification

Not applicable

# SECTION 3: Composition/information on ingredients

### Substance

Not applicable.

### <u>Mixture</u>

| Chemical name                         | Weight-%    | CAS No    |
|---------------------------------------|-------------|-----------|
| Water                                 | 50 - 100    | 7732-18-5 |
| Potassium chloride                    | 2.5 - 5     | 7447-40-7 |
| Phosphoric acid, potassium salt (1:1) | 1 - 2.5     | 7778-77-0 |
| 1-Imidazole                           | 0.1 - 0.299 | 288-32-4  |

### **SECTION 4: First aid measures**

### **Description of necessary first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

Skin contact Wash skin with soap and water.

Rinse mouth thoroughly with water. Ingestion

Most important symptoms and effects, both acute and delayed Prolonged contact may cause redness and irritation.

For emergency responders No information available.

Treat symptomatically. Note to doctors

# **SECTION 5: Firefighting measures**

**Extinguishing media** 

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

No information available. Unsuitable extinguishing media

Specific hazards arising from the

chemical

No information available.

Special protective actions for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** See section 8 for more information.

Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled

containers.

hazards

<u>Precautions to prevent secondary</u> Clean contaminated objects and areas thoroughly observing environmental regulations.

### SECTION 7: Handling and storage

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with Precautions for safe handling

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. See Section 8 for

information on appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities Store locked up. Store according to product and label instructions.

Incompatible materials None known based on information supplied.

### SECTION 8: Exposure controls/personal protection

### Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Note See section 16 for terms and abbreviations

### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Monitoring and observation processes

No applicable information was found.

Engineering controls Showers

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing.

**Hand protection** Wear suitable gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

# SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance aqueous solution
Colour colourless
Physical state Liquid
Odour Odourless

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 8

Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known No data available Flash point None known **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressureNo data availableNone knownRelative vapour densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility Miscible in water

Solubility(ies)
No data available
None known
Partition coefficient
No data available
None known
Autoignition temperature
No data available
None known
Decomposition temperature
No data available
None known
No data available
None known
No data available
None known

Dynamic viscosity No data available None known

Additional information

Explosive properties Not applicable Oxidising properties Not applicable

# SECTION 10: Stability and reactivity

<u>Stability</u> Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Conditions to avoid None known based on information supplied.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# SECTION 11: Toxicological information

**Acute toxicity** 

Numerical measures of toxicity

### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 61,611.40 mg/kg ATEmix (inhalation-dust/mist) 64.30 mg/l

**Component Information** 

| Chemical name                         | Oral LD50          | Dermal LD50 | Inhalation LC50       |
|---------------------------------------|--------------------|-------------|-----------------------|
| Water                                 | > 90 mL/kg (Rat)   | -           | -                     |
| Potassium chloride                    | = 2600 mg/kg (Rat) | -           | -                     |
| Phosphoric acid, potassium salt (1:1) | = 3200 mg/kg (Rat) | •           | > 0.83 mg/L (Rat) 4 h |
| 1-Imidazole                           | = 220 mg/kg (Rat)  | -           | -                     |

**Skin corrosion/irritation** Classification based on data available for ingredients. May cause skin irritation.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

Specific target organ toxicity —

single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity — Based on available data, the classification criteria are not met.

repeated exposure

Aspiration hazard Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

### **Ecotoxicity**

**Unknown aquatic toxicity** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name      | Algae/aquatic plants     | Fish                          | Crustacea                    |
|--------------------|--------------------------|-------------------------------|------------------------------|
| Potassium chloride | EC50: =2500mg/L (72h,    | LC50: =1060mg/L (96h, Lepomis | EC50: =825mg/L (48h, Daphnia |
|                    | Desmodesmus subspicatus) | macrochirus)                  | magna)                       |
|                    |                          | LC50: 750 - 1020mg/L (96h,    | EC50: =83mg/L (48h, Daphnia  |
|                    |                          | Pimephales promelas)          | magna)                       |
| 1-Imidazole        | EC50: =130mg/L (72h,     | -                             | EC50: =341.5mg/L (48h,       |
|                    | Desmodesmus subspicatus) |                               | Daphnia magna)               |
|                    | EC50: =82mg/L (96h,      |                               |                              |
|                    | Desmodesmus subspicatus) |                               |                              |

<u>Persistence and degradability</u> No information available.

Bioaccumulative potential There is no data for this product.

**Component Information** 

| Chemical name | Partition coefficient |  |
|---------------|-----------------------|--|
| 1-Imidazole   | -0.02                 |  |

Mobility in soil No information available.

### **SECTION 13: Disposal considerations**

Waste chemicals Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# **SECTION 14: Transport information**

<u>IMDG</u> Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

<u>IATA</u> Not regulated

<u>China</u> Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

### **SECTION 15: Regulatory information**

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

#### **National regulations**

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors: Not applicable. Catalogue of occupational diseases: Not applicable.

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals Not applicable.

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

List of hazardous chemicals under priority management Not applicable

Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China Not applicable

Measures for the Environmental Management of New Chemical Substances

**IECSC - China Inventory of Existing Chemical Substances** Contact supplier for inventory compliance status.

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **SECTION 16: Other information**

**Prepared By** Bio-Rad Laboratories, Environmental Health and Safety

**Revision date** 12-Oct-2022

**Revision Note** Reformatted and updated existing information.

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL

Ceiling Maximum limit value Skin designation

Carcinogen

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 



# SAFETY DATA SHEET

**Legal Entity / Contact Address** 

Pathumwan, Bangkok 10330

Thailand

1st and 2nd Floor, Lumpini 1 Building 239/2, Rajdamri Road, Lumpini,

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name Native IMAC Elution Buffer, 2x

Revision date 11-Oct-2022

Revision Number 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product Name** Native IMAC Elution Buffer, 2x

Catalogue Number(s) 6200208, 10005917

Other means of identification

Mixture Pure substance/mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd.

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

**Technical Service** +66 2 652 8313

ctsthailand@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

### **SECTION 2: Hazards identification**

### **Emergency Overview**

Irritating to skin Risk of serious damage to eyes

Appearance aqueous solution Physical state Liquid **Odour** Odourless

### Classification of the substance or mixture

| Skin corrosion/irritation         | Category 2  |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 1  |
| Reproductive toxicity             | Category 1B |

Label elements



### Signal word

Danger

#### **Hazard statements**

Causes skin irritation
Causes serious eye damage
May damage fertility or the unborn child

### **Precautionary statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

### Response

IF exposed or concerned: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention Take off all contaminated clothing and wash it before reuse

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 CENTRE or doctor

#### Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

### Physical and chemical hazards

Not applicable.

#### **Health hazards**

Immediate Health Effects: Causes skin irritation (pain, redness and swelling). Risk of serious damage to eyes. Impairment of vision

Chronic effects: Contains a known or suspected reproductive toxin.

#### **Environmental hazards**

Not applicable

### Other hazards which do not result in classification

Not applicable

# SECTION 3: Composition/information on ingredients

### Substance

Not applicable.

#### Mixture

| Chemical name                         | Weight-% | CAS No    |
|---------------------------------------|----------|-----------|
| Water                                 | 50 - 100 | 7732-18-5 |
| Potassium chloride                    | 2.5 - 5  | 7447-40-7 |
| 1-Imidazole                           | 2.5 - 5  | 288-32-4  |
| Phosphoric acid, potassium salt (1:1) | 1 - 2.5  | 7778-77-0 |

### **SECTION 4: First aid measures**

### Description of necessary first aid measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical Skin contact

attention if irritation develops and persists.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Call a doctor.

Most important symptoms and effects, both acute and delayed Burning sensation.

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). For emergency responders

Note to doctors Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the **Suitable Extinguishing Media** 

surrounding environment.

No information available. Unsuitable extinguishing media

Specific hazards arising from the

chemical

No information available.

Special protective actions for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled

containers.

hazards

<u>Precautions to prevent secondary</u> Clean contaminated objects and areas thoroughly observing environmental regulations.

# **SECTION 7: Handling and storage**

<u>Precautions for safe handling</u> Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. See Section 8 for information on appropriate

personal protective equipment.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store according to product and label instructions.

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

# SECTION 8: Exposure controls/personal protection

### **Occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Note See section 16 for terms and abbreviations

### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Monitoring and observation processes

No applicable information was found.

Engineering controls Showers

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection**Wear suitable protective clothing. Long sleeved clothing.

**Hand protection** Wear suitable gloves. Impervious gloves.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

# SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance aqueous solution
Colour colourless
Physical state Liquid
Odour Odourless

Odour threshold No information available

Property Values Remarks • Method

**pH** 8

Melting point / freezing pointNo data availableNone knownInitial boiling point and boiling rangeNo data availableNone knownFlash pointNo data availableNone known

Evaporation rateNo data availableNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressure No data available None known Relative vapour density No data available None known Relative density No data available None known Water solubility Miscible in water Solubility(ies) No data available None known **Partition coefficient** No data available None known Autoignition temperature No data available None known None known

Decomposition temperature
Kinematic viscosity
No data available
None known

Additional information

**Explosive properties**Not applicable
Not applicable

### SECTION 10: Stability and reactivity

<u>Stability</u> Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

**Conditions to avoid**None known based on information supplied.

<u>Incompatible materials</u> Strong acids. Strong bases. Strong oxidising agents.

Hazardous decomposition products None known based on information supplied.

# SECTION 11: Toxicological information

Acute toxicity

Numerical measures of toxicity

### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 12,831.90 mg/kg ATEmix (inhalation-dust/mist) 66.40 mg/l

**Component Information** 

| Chemical name                         | Oral LD50          | Dermal LD50 | Inhalation LC50       |
|---------------------------------------|--------------------|-------------|-----------------------|
| Water                                 | > 90 mL/kg (Rat)   | -           | -                     |
| Potassium chloride                    | = 2600 mg/kg (Rat) | -           | -                     |
| 1-Imidazole                           | = 220 mg/kg (Rat)  | -           | -                     |
| Phosphoric acid, potassium salt (1:1) | = 3200 mg/kg (Rat) | -           | > 0.83 mg/L (Rat) 4 h |

Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious

damage to eyes.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

Specific target organ toxicity —

single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity —

repeated exposure

Based on available data, the classification criteria are not met.

**Aspiration hazard**Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

#### Ecotoxicity

Unknown aquatic toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name      | Algae/aquatic plants                            | Fish                          | Crustacea                    |
|--------------------|---|-------------------------------|------------------------------|
| Potassium chloride | EC50: =2500mg/L (72h,                           | LC50: =1060mg/L (96h, Lepomis | EC50: =825mg/L (48h, Daphnia |
|                    | Desmodesmus subspicatus)                        | macrochirus)                  | magna)                       |
|                    |   | LC50: 750 - 1020mg/L (96h,    | EC50: =83mg/L (48h, Daphnia  |
|                    |   | Pimephales promelas)          | magna)                       |
| 1-Imidazole        | EC50: =130mg/L (72h,                            | -                             | EC50: =341.5mg/L (48h,       |
|                    | Desmodesmus subspicatus)<br>EC50: =82mg/L (96h, |                               | Daphnia magna)               |
|                    | Desmodesmus subspicatus)                        |                               |                              |

<u>Persistence and degradability</u> No information available.

<u>Bioaccumulative potential</u> There is no data for this product.

**Component Information** 

| - Component intermediate |               |                       |  |
|--------------------------|---------------|-----------------------|--|
|                          | Chemical name | Partition coefficient |  |
|                          | 1-lmidazole   | -0.02                 |  |

Mobility in soil No information available.

### **SECTION 13: Disposal considerations**

<u>Waste chemicals</u> Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### **SECTION 14: Transport information**

IMDG Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA Not regulated

<u>China</u> Not regulated

#### Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

### SECTION 15: Regulatory information

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

### National regulations

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors:

Catalogue of occupational diseases:

Not applicable.

Not applicable.

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals Not applicable.

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

List of hazardous chemicals under priority management Not applicable

Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods

Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China Not applicable

Measures for the Environmental Management of New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances Contact supplier for inventory compliance status.

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **SECTION 16: Other information**

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 11-Oct-2022

**Revision Note** Reformatted and updated existing information.

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

### **Disclaimer**

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**End of Safety Data Sheet** 



# SAFETY DATA SHEET

**Legal Entity / Contact Address** 

Pathumwan, Bangkok 10330

Thailand

1st and 2nd Floor, Lumpini 1 Building 239/2, Rajdamri Road, Lumpini,

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name Profinia Desalting Buffer 5X

Revision date 12-Oct-2022

**Revision Number 1** 

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product Name** Profinia Desalting Buffer 5X

Catalogue Number(s) 6200216, 10005918

Other means of identification

Mixture Pure substance/mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd.

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

**Technical Service** +66 2 652 8313

ctsthailand@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

### **SECTION 2: Hazards identification**

### **Emergency Overview**

No significant adverse health effects

Odour Odourless Physical state Liquid **Appearance** aqueous solution

### Classification of the substance or mixture

Not classified

Label elements

### **Hazard statements**

Not classified

### Physical and chemical hazards

Not applicable.

**Health hazards** 

Immediate Health Effects: Not applicable.

Chronic effects: Not applicable.

#### **Environmental hazards**

Not applicable

### Other hazards which do not result in classification

Not applicable

# SECTION 3: Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Not classified.

| Chemical name                         | Weight-%    | CAS No    |
|---------------------------------------|-------------|-----------|
| Water                                 | 50 - 100    | 7732-18-5 |
| Sodium chloride                       | 2.5 - 5     | 7647-14-5 |
| Disodium orthophosphate heptahydrate  | 0.3 - 0.99  | 7782-85-6 |
| Phosphoric acid, potassium salt (1:1) | 0.3 - 0.99  | 7778-77-0 |
| Potassium chloride                    | 0.1 - 0.299 | 7447-40-7 |

# **SECTION 4: First aid measures**

#### Description of necessary first aid measures

**General advice** No hazards which require special first aid measures.

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

**Skin contact** Wash skin with soap and water.

**Ingestion** Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

No information available.

For emergency responders No information available.

**Note to doctors** Treat symptomatically.

# **SECTION 5: Firefighting measures**

### **Extinguishing media**

surrounding environment.

Unsuitable extinguishing media No information available.

**Product Name** Profinia Desalting Buffer 5X

Revision date 12-Oct-2022

Specific hazards arising from the

chemical

No information available.

Special protective actions for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** See section 8 for more information.

Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled

containers.

<u>hazards</u>

<u>Precautions to prevent secondary</u> Clean contaminated objects and areas thoroughly observing environmental regulations.

# **SECTION 7: Handling and storage**

Precautions for safe handling Handle in accordance with good industrial hygiene and safety practice. See Section 8 for

information on appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities Store according to product and label instructions.

None known based on information supplied. Incompatible materials

# SECTION 8: Exposure controls/personal protection

### Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Note See section 16 for terms and abbreviations

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

### Monitoring and observation processes

No applicable information was found.

Showers Engineering controls

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing.

**Hand protection** Wear suitable gloves.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9: Physical and chemical properties

## Information on basic physical and chemical properties

Appearance aqueous solution colourless

Physical state Liquid Odour Odourless

Odour threshold No information available

Property Values Remarks • Method

**pH** 7

Melting point / freezing point 0 °C

Initial boiling point and boiling rangeNo data available

Flash point

No data available

None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressureNo data availableNone knownRelative vapour densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility Miscible in water

Solubility(ies) No data available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known No data available **Dynamic viscosity** None known

Additional information

Explosive properties Not applicable Oxidising properties Not applicable

## SECTION 10: Stability and reactivity

Stability Stable under normal conditions.

<u>Possibility of hazardous reactions</u> None under normal processing.

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

**Conditions to avoid**None known based on information supplied.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## **SECTION 11: Toxicological information**

Acute toxicity

### Numerical measures of toxicity

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 65,616.80 mg/kg

**Component Information** 

| Chemical name                         | Oral LD50          | Dermal LD50            | Inhalation LC50       |
|---------------------------------------|--------------------|------------------------|-----------------------|
| Water                                 | > 90 mL/kg (Rat)   | -                      | -                     |
| Sodium chloride                       | = 3 g/kg (Rat)     | > 10000 mg/kg (Rabbit) | > 42 mg/L (Rat) 1 h   |
| Phosphoric acid, potassium salt (1:1) | = 3200 mg/kg (Rat) | -                      | > 0.83 mg/L (Rat) 4 h |
| Potassium chloride                    | = 2600 mg/kg (Rat) | -                      | -                     |

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Carcinogenicity Reproductive toxicity Based on available data, the classification criteria are not met. Specific target organ toxicity — Based on available data, the classification criteria are not met. single exposure Specific target organ toxicity — Based on available data, the classification criteria are not met. repeated exposure **Aspiration hazard** Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

#### **Ecotoxicity**

Unknown aquatic toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name      | Algae/aquatic plants     | Fish                          | Crustacea                     |
|--------------------|--------------------------|-------------------------------|-------------------------------|
| Sodium chloride    | -                        | LC50: 5560 - 6080mg/L (96h,   | EC50: =1000mg/L (48h,         |
|                    |                          | Lepomis macrochirus)          | Daphnia magna)                |
|                    |                          | LC50: =12946mg/L (96h,        | EC50: 340.7 - 469.2mg/L (48h, |
|                    |                          | Lepomis macrochirus)          | Daphnia magna)                |
|                    |                          | LC50: 6020 - 7070mg/L (96h,   | _                             |
|                    |                          | Pimephales promelas)          |                               |
|                    |                          | LC50: =7050mg/L (96h,         |                               |
|                    |                          | Pimephales promelas)          |                               |
|                    |                          | LC50: 6420 - 6700mg/L (96h,   |                               |
|                    |                          | Pimephales promelas)          |                               |
|                    |                          | LC50: 4747 - 7824mg/L (96h,   |                               |
|                    |                          | Oncorhynchus mykiss)          |                               |
| Potassium chloride | EC50: =2500mg/L (72h,    | LC50: =1060mg/L (96h, Lepomis | EC50: =825mg/L (48h, Daphnia  |
|                    | Desmodesmus subspicatus) | macrochirus)                  | magna)                        |
|                    |                          | LC50: 750 - 1020mg/L (96h,    | EC50: =83mg/L (48h, Daphnia   |

Pimephales promelas) magna)

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Mobility in soil No information available.

## **SECTION 13: Disposal considerations**

<u>Waste chemicals</u> Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

## **SECTION 14: Transport information**

IMDG Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

<u>IATA</u> Not regulated

<u>China</u> Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

## SECTION 15: Regulatory information

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

#### **National regulations**

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors:

Catalogue of occupational diseases:

Not applicable.

Not applicable.

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals

Not applicable.

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

List of hazardous chemicals under priority management Not applicable

Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China Not applicable

Measures for the Environmental Management of New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances 
Contact supplier for inventory compliance status.

### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

#### The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## **SECTION 16: Other information**

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 12-Oct-2022

**Revision Note** Reformatted and updated existing information.

#### Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 



# SAFETY DATA SHEET

**Legal Entity / Contact Address** 

Pathumwan, Bangkok 10330

Thailand

1st and 2nd Floor, Lumpini 1 Building 239/2, Rajdamri Road, Lumpini,

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name Cleaning Solution 1, 2x

Revision date 12-Oct-2022

**Revision Number 1** 

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product Name** Cleaning Solution 1, 2x

Catalogue Number(s) 6200217, 10006097

Other means of identification

Mixture Pure substance/mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd.

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

**Technical Service** +66 2 652 8313

ctsthailand@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

## **SECTION 2: Hazards identification**

## **Emergency Overview**

No significant adverse health effects

Odour Odourless Physical state Liquid **Appearance** aqueous solution

### Classification of the substance or mixture

Not classified

Label elements

### **Hazard statements**

Not classified

#### Physical and chemical hazards

Not applicable.

**Health hazards** 

Immediate Health Effects: Not applicable.

Chronic effects: Not applicable.

#### **Environmental hazards**

Not applicable

### Other hazards which do not result in classification

Not applicable

## SECTION 3: Composition/information on ingredients

#### Substance

Not applicable.

#### <u>Mixture</u>

Not classified.

| Chemical name                               | Weight-% | CAS No    |
|---|----------|-----------|
| Water                                       | 50 - 100 | 7732-18-5 |
| Sodium chloride                             | 5 - 10   | 7647-14-5 |
| 1,3-Propanediol, 2-amino-2-(hydroxymethyl)- | 1 - 2.5  | 77-86-1   |

## **SECTION 4: First aid measures**

#### Description of necessary first aid measures

**General advice** No hazards which require special first aid measures.

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

**Skin contact** Wash skin with soap and water.

**Ingestion** Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

No information available.

For emergency responders No information available.

**Note to doctors** Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **Extinguishing media**

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the

chemical

No information available.

Special protective actions for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** See section 8 for more information.

For emergency responders

Use personal protection recommended in Section 8.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled

containers.

Precautions to prevent secondary

hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

## SECTION 7: Handling and storage

Precautions for safe handling Handle in accordance with good industrial hygiene and safety practice. See Section 8 for

information on appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities

Store according to product and label instructions.

**Incompatible materials**None known based on information supplied.

## SECTION 8: Exposure controls/personal protection

#### Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Note** See section 16 for terms and abbreviations

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### **Monitoring and observation processes**

No applicable information was found.

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing.

Hand protection Wear suitable gloves.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties

aqueous solution **Appearance** Colour colourless Physical state Liquid

Odour Odourless

Odour threshold No information available

Property Values Remarks • Method

pН

°C Melting point / freezing point 0

Initial boiling point and boiling rangeNo data available None known Flash point No data available None known **Evaporation rate** No data available None known **Flammability** No data available None known None known

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available None known Vapour pressure Relative vapour density No data available None known Relative density No data available None known

Water solubility Miscible in water

Solubility(ies) No data available None known No data available None known Partition coefficient No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available Kinematic viscosity None known Dynamic viscosity No data available None known

Additional information

**Explosive properties** Not applicable **Oxidising properties** Not applicable

## SECTION 10: Stability and reactivity

Stable under normal conditions. Stability

Possibility of hazardous reactions None under normal processing.

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Conditions to avoid None known based on information supplied.

None known based on information supplied. Incompatible materials

Hazardous decomposition products None known based on information supplied.

### **SECTION 11: Toxicological information**

Acute toxicity

Numerical measures of toxicity

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 42,096.00 mg/kg

**Component Information** 

| Chemical name              | Oral LD50          | Dermal LD50            | Inhalation LC50     |
|----------------------------|--------------------|------------------------|---------------------|
| Water                      | > 90 mL/kg (Rat)   | -                      | -                   |
|                            |                    |                        |                     |
| Sodium chloride            | = 3 g/kg (Rat)     | > 10000 mg/kg (Rabbit) | > 42 mg/L (Rat) 1 h |
|                            |                    |                        |                     |
| 1,3-Propanediol,           | = 5900 mg/kg (Rat) | > 5000 mg/kg (Rat)     | -                   |
| 2-amino-2-(hydroxymethyl)- |                    |                        |                     |

Skin corrosion/irritation Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. Specific target organ toxicity — Based on available data, the classification criteria are not met. single exposure Based on available data, the classification criteria are not met. Specific target organ toxicity repeated exposure

## **SECTION 12: Ecological information**

#### **Ecotoxicity**

**Aspiration hazard** 

**Unknown aquatic toxicity** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Based on available data, the classification criteria are not met.

| Chemical name   | Algae/aquatic plants | Fish                        | Crustacea                     |
|-----------------|----------------------|-----------------------------|-------------------------------|
| Sodium chloride | -                    | LC50: 5560 - 6080mg/L (96h, | EC50: =1000mg/L (48h,         |
|                 |                      | Lepomis macrochirus)        | Daphnia magna)                |
|                 |                      | LC50: =12946mg/L (96h,      | EC50: 340.7 - 469.2mg/L (48h, |
|                 |                      | Lepomis macrochirus)        | Daphnia magna)                |
|                 |                      | LC50: 6020 - 7070mg/L (96h, |                               |
|                 |                      | Pimephales promelas)        |                               |
|                 |                      | LC50: =7050mg/L (96h,       |                               |
|                 |                      | Pimephales promelas)        |                               |
|                 |                      | LC50: 6420 - 6700mg/L (96h, |                               |
|                 |                      | Pimephales promelas)        |                               |
|                 |                      | LC50: 4747 - 7824mg/L (96h, |                               |
|                 |                      | Oncorhynchus mykiss)        |                               |

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil No information available.

Product Name Cleaning Solution 1, 2x Revision date 12-Oct-2022

## SECTION 13: Disposal considerations

Waste chemicals Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

<u>Contaminated packaging</u> Do not reuse empty containers.

## **SECTION 14: Transport information**

IMDG Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

<u>IATA</u> Not regulated

<u>China</u> Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

## SECTION 15: Regulatory information

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

#### **National regulations**

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors:

Catalogue of occupational diseases:

Not applicable.

Not applicable.

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals

Not applicable.

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

List of hazardous chemicals under priority management Not applicable

Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China Not applicable

Measures for the Environmental Management of New Chemical Substances

**IECSC - China Inventory of Existing Chemical Substances** Contact supplier for inventory compliance status.

## International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## **SECTION 16: Other information**

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 12-Oct-2022

**Revision Note** Reformatted and updated existing information.

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### **Disclaimer**

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**End of Safety Data Sheet** 



# SAFETY DATA SHEET

**Legal Entity / Contact Address** 

Pathumwan, Bangkok 10330

Thailand

1st and 2nd Floor, Lumpini 1 Building 239/2, Rajdamri Road, Lumpini,

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name Cleaning Solution 2, 4x

Revision date 12-Oct-2022

**Revision Number 1** 

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product Name** Cleaning Solution 2, 4x

Catalogue Number(s) 6200218, 10006098, 10006564

Other means of identification

Mixture Pure substance/mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd.

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

**Technical Service** +66 2 652 8313

ctsthailand@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

## **SECTION 2: Hazards identification**

## **Emergency Overview**

No significant adverse health effects

Odour Odourless Physical state Liquid **Appearance** aqueous solution

## Classification of the substance or mixture

Not classified

Label elements

### **Hazard statements**

Not classified

#### Physical and chemical hazards

Not applicable.

**Health hazards** 

Immediate Health Effects: Not applicable.

Chronic effects: Not applicable.

#### **Environmental hazards**

Not applicable

### Other hazards which do not result in classification

Not applicable

## SECTION 3: Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Not classified.

| Chemical name             | Weight-% | CAS No    |
|---------------------------|----------|-----------|
| Water                     | 50 - 100 | 7732-18-5 |
| Sodium chloride           | 5 - 10   | 7647-14-5 |
| Sodium acetate trihydrate | 2.5 - 5  | 6131-90-4 |

## **SECTION 4: First aid measures**

#### Description of necessary first aid measures

**General advice** No hazards which require special first aid measures.

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

**Skin contact** Wash skin with soap and water.

**Ingestion** Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

No information available.

For emergency responders No information available.

Note to doctors Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### **Extinguishing media**

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the

No information available.

chemical

Special protective actions for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** See section 8 for more information.

**Environmental precautions**See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled

containers.

Precautions to prevent secondary

hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

## SECTION 7: Handling and storage

Precautions for safe handling Handle in accordance with good industrial hygiene and safety practice. See Section 8 for

information on appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities

Store according to product and label instructions.

**Incompatible materials**None known based on information supplied.

## SECTION 8: Exposure controls/personal protection

#### Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Note** See section 16 for terms and abbreviations

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### **Monitoring and observation processes**

No applicable information was found.

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing.

Hand protection Wear suitable gloves.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties

aqueous solution **Appearance** Colour colourless Physical state Liquid

Odour Odourless

Odour threshold No information available

Values\_ Property Remarks • Method

pН 4.5

0 °C Melting point / freezing point

Initial boiling point and boiling rangeNo data available None known Flash point No data available None known **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available None known Vapour pressure Relative vapour density No data available None known Relative density No data available None known

Water solubility Miscible in water

Solubility(ies) No data available None known No data available None known Partition coefficient No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available Kinematic viscosity None known Dynamic viscosity No data available None known

Additional information

**Explosive properties** Not applicable **Oxidising properties** Not applicable

## SECTION 10: Stability and reactivity

Stable under normal conditions. Stability

Possibility of hazardous reactions None under normal processing.

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Conditions to avoid None known based on information supplied.

None known based on information supplied. Incompatible materials

Hazardous decomposition products None known based on information supplied.

### **SECTION 11: Toxicological information**

Acute toxicity

Numerical measures of toxicity

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 25,050.10 mg/kg

**Component Information** 

| Chemical name   | Oral LD50        | Dermal LD50              | Inhalation LC50    |
|-----------------|------------------|--------------------------|--------------------|
| Water           | > 90 mL/kg (Rat) | -                        | -                  |
| Sodium chloride | = 3 g/kg (Rat)   | > 10000 mg/kg ( Rabbit ) | > 42 mg/L (Rat)1 h |

Skin corrosion/irritation Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Serious eye damage/eye irritation Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. Specific target organ toxicity — Based on available data, the classification criteria are not met. single exposure Based on available data, the classification criteria are not met. Specific target organ toxicity repeated exposure

## **SECTION 12: Ecological information**

#### **Ecotoxicity**

**Aspiration hazard** 

Unknown aquatic toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Based on available data, the classification criteria are not met.

| Chemical name   | Algae/aquatic plants | Fish                        | Crustacea                     |
|-----------------|----------------------|-----------------------------|-------------------------------|
| Sodium chloride | -                    | LC50: 5560 - 6080mg/L (96h, | EC50: =1000mg/L (48h,         |
|                 |                      | Lepomis macrochirus)        | Daphnia magna)                |
|                 |                      | LC50: =12946mg/L (96h,      | EC50: 340.7 - 469.2mg/L (48h, |
|                 |                      | Lepomis macrochirus)        | Daphnia magna)                |
|                 |                      | LC50: 6020 - 7070mg/L (96h, |                               |
|                 |                      | Pimephales promelas)        |                               |
|                 |                      | LC50: =7050mg/L (96h,       |                               |
|                 |                      | Pimephales promelas)        |                               |
|                 |                      | LC50: 6420 - 6700mg/L (96h, |                               |
|                 |                      | Pimephales promelas)        |                               |
|                 |                      | LC50: 4747 - 7824mg/L (96h, |                               |
|                 |                      | Oncorhynchus mykiss)        |                               |

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil No information available.

## **SECTION 13: Disposal considerations**

Waste chemicals Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

<u>Contaminated packaging</u> Do not reuse empty containers.

## **SECTION 14: Transport information**

IMDG Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA Not regulated

<u>China</u> Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

## **SECTION 15: Regulatory information**

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

#### **National regulations**

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors:

Catalogue of occupational diseases:

Not applicable.

Not applicable.

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals

Not applicable.

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

List of hazardous chemicals under priority management Not applicable

Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods

Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China Not applicable

Measures for the Environmental Management of New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances Contact supplier for inventory compliance status.

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## **SECTION 16: Other information**

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 12-Oct-2022

**Revision Note** Reformatted and updated existing information.

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 



# SAFETY DATA SHEET

**Legal Entity / Contact Address** 

239/2, Rajdamri Road, Lumpini, Pathumwan, Bangkok 10330

Thailand

1st and 2nd Floor, Lumpini 1 Building

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name Profinia Storage Solution

Revision date 12-Oct-2022

**Revision Number 1** 

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product Name** Profinia Storage Solution

Catalogue Number(s) 6200219, 10006099

Other means of identification

Mixture Pure substance/mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd.

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

**Technical Service** +66 2 652 8313

ctsthailand@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

## **SECTION 2: Hazards identification**

## **Emergency Overview**

No significant adverse health effects

**Odour** Odourless Physical state Liquid Appearance aqueous solution

Classification of the substance or mixture

Hazardous to the Aquatic Environment - Chronic Hazard Category 3

Label elements

**Hazard statements** 

Harmful to aquatic life with long lasting effects

Review Date 12-Oct-2022

#### **Precautionary statements**

Prevention

Avoid release to the environment

Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

### Physical and chemical hazards

Not applicable.

**Health hazards** 

Immediate Health Effects: Not applicable.

Chronic effects: Not applicable.

#### **Environmental hazards**

This material is a water pollutant. Keep out of drains, sewers, ditches and waterways. Minimise use of water to prevent

environmental contamination

#### Other hazards which do not result in classification

Not applicable

## SECTION 3: Composition/information on ingredients

#### Substance

Not applicable.

#### **Mixture**

| Chemical name  | Weight-% | CAS No    |
|----------------|----------|-----------|
| Water          | 50 - 100 | 7732-18-5 |
| Benzyl alcohol | 2.5 - 5  | 100-51-6  |

### **SECTION 4: First aid measures**

#### Description of necessary first aid measures

General advice No hazards which require special first aid measures.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

**Skin contact** Wash skin with soap and water.

**Ingestion** Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

No information available.

For emergency responders No information available.

<u>Note to doctors</u> Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the

chemical

No information available.

Special protective actions for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8 for more information.

Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled

containers.

hazards

**Precautions to prevent secondary** Clean contaminated objects and areas thoroughly observing environmental regulations.

## SECTION 7: Handling and storage

Precautions for safe handling Handle in accordance with good industrial hygiene and safety practice. See Section 8 for

information on appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities Store according to product and label instructions.

Incompatible materials None known based on information supplied.

## SECTION 8: Exposure controls/personal protection

#### Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Note See section 16 for terms and abbreviations

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Monitoring and observation processes

No applicable information was found.

Engineering controls Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection**Wear suitable protective clothing.

Hand protection Wear suitable gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

## Information on basic physical and chemical properties

Appearance aqueous solution colourless

Physical state Liquid Odour Odourless

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH None known

Melting point / freezing point 0 °C

Initial boiling point and boiling rangeNo data availableNone knownFlash pointNo data availableNone knownEvaporation rateNo data availableNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressureNo data availableNone knownRelative vapour densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility Miscible in water

Solubility(ies) No data available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known

Additional information

Explosive properties Not applicable Oxidising properties Not applicable

### SECTION 10: Stability and reactivity

<u>Stability</u> Stable under normal conditions.

**Possibility of hazardous reactions** None under normal processing.

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Conditions to avoid None known based on information supplied.

<u>Incompatible materials</u> None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

Product Name Profinia Storage Solution

Revision date 12-Oct-2022

## SECTION 11: Toxicological information

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 46,067.40 mg/kg
ATEmix (dermal) 74,906.40 mg/kg
ATEmix (inhalation-dust/mist) 156.479 mg/l

**Component Information** 

| Chemical name  | Oral LD50          | Dermal LD50      | Inhalation LC50        |
|----------------|--------------------|------------------|------------------------|
| Water          | > 90 mL/kg(Rat)    | -                | -                      |
| Benzyl alcohol | = 1230 mg/kg (Rat) | = 2 g/kg(Rabbit) | > 4178 mg/m³ (Rat) 4 h |

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

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Specific target organ toxicity — repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name  | Algae/aquatic plants | Fish                        | Crustacea                       |
|----------------|----------------------|-----------------------------|---------------------------------|
| Benzyl alcohol | -                    | LC50: =460mg/L (96h,        | EC50: =23mg/L (48h, water flea) |
| ·              |                      | Pimephales promelas)        | -                               |
|                |                      | LC50: =10mg/L (96h, Lepomis |                                 |
|                |                      | macrochirus)                |                                 |

<u>Persistence and degradability</u> No information available.

Bioaccumulative potential There is no data for this product.

**Component Information** 

| Chemical name  | Partition coefficient |
|----------------|-----------------------|
| Benzyl alcohol | 1.05                  |

Mobility in soil No information available.

## SECTION 13: Disposal considerations

Waste chemicals Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## **SECTION 14: Transport information**

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