# KIT SAFETY DATA SHEET



Kit Product Name Kit Catalog Number(s) Organic Acid Analysis Kit 1250234

**Revision date** 

13-Sep-2023

# Kit Contents

Catalog Number(s)	Product Name
1250129	Micro-Guard Cation H+ Refill Cartridges
1250094, 1250095, 1250096, 1250097, 1250098, 1250140, 1250142,	Aminex HPX Column
1250143	
1250586, 9702421	Organic Acid Standard

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# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Revision date 13-Sep-2023

Revision Number 1.1

1. Identification		
Product identifier		
Product Name	Micro-Guard Cation H+ Refill Cartridges	
Other means of identification		
Catalog Number(s)	1250129	
Recommended use of the chemical and restrictions on use		
Recommended use	Laboratory chemicals	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
<u>Corporate Headquarters</u> Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547 USA	<u>Manufacturer Address</u> Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547 USA	Legal Entity / Contact Address Bio-Rad Laboratories (Canada) Ltd. 1329 Meyerside Drive Mississauga, ON L5T 1C9 Canada
Technical Service	1-800-361-1808 support@bio-rad.com	
Emergency telephone number		
24 Hour Emergency Phone Number	CHEMTREC Canada:1 (800) 424-9300	

# 2. Hazard(s) identification

**Classification** 

Not classified

Label elements

# Hazard statements

Not classified.

Other information

3. Composition/information on ingredients

### Substance

Not applicable.

# <u>Mixture</u>

The product contains no substances which at their given concentration, are considered to be hazardous to health

# 4. First-aid measures . ..

Description of 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 physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Rinse mouth thoroughly with water.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# 5. Fire-fighting measures

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	None known.	
Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

# 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8 for more information.

# Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Methods for containment

Methods for cleaning up Pick up and transfer to properly labeled containers.

# 7. Handling and storage

# Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store according to product and label instructions.

# 8. Exposure controls/personal protection

### Control parameters

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

### Appropriate engineering controls

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).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
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.

# 9. Physical and chemical properties

Information on basic physical and chemical properties		
Physical state	Solid	
Appearance	liquid - solid: mixture of	
Color	amber	
Odor	Odorless	
Odor threshold	No information available	
<u>Property</u>	Values	Remarks • Method
рН		None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known

Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Partially miscible	
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	Not applicable.	
Oxidizing properties	Not applicable.	
Softening point	Not applicable	
Molecular weight	Not applicable	
VOC content	Not applicable	

# 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
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.

# 11. Toxicological information

# Information on likely routes of exposure

**Product Information** 

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical, chemical and toxicological characteristics	

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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 sensitization	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.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

12. Ecological information		
Ecotoxicity	The environmental impact of this product has not been fully investigated.	
Persistence and degradability	No information available.	
Bioaccumulation	No information available.	
Other adverse effects	No information available.	

13. Disposal considerations		
Waste treatment methods		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	

# 14. Transport information

TDG	Not regulated
DOT	Not regulated
ΙΑΤΑ	Not regulated

15. Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture

# **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

### International Inventories

Contact supplier for inventory compliance status

16. Other information						
<u>NFPA</u>	Health hazar	<b>ds</b> 0	Flammability	0	Instability 0	Physical and chemical properties -
HMIS	Health hazar	<b>ds</b> 0	Flammability	0	Physical hazards 0	
Key or legend	d to abbreviations and a	cronyms	used in the safe	ty data sh	eet	
Legend Sect	ion 8: EXPOSURE CONT TWA (time-weighted			ECTION TEL	STEL (Short Te	erm Exposure Limit)
Ceiling	Maximum limit value		*		Skin designatio	
U.S. Environm European Foo EPA (Environm Acute Exposu U.S. Environm V.S. Environm Food Researc Hazardous Su International L Japan GHS C Australia Natio NIOSH (Nation National Libra National Libra National Libra National Toxic New Zealand's Organization f Organization f	Ibstance Database Jniform Chemical Informat lassification onal Industrial Chemicals I nal Institute for Occupation ry of Medicine's ChemID F ry of Medicine's PubMed of cology Program (NTP) s Chemical Classification a for Economic Co-operation for Economic Co-operation for Economic Co-operation for Economic Co-operation for Economic Co-operation stry of Toxic Effects of Che Organization	ChemViev GL(s)) Tederal In ligh Prod tion Datab Notificatio hal Safety Plus (NLW latabase and Inform and Dev and Dev and Dev emical Su	v Database secticide, Fungici uction Volume Ch base (IUCLID) n and Assessmer and Health) I CIP) (NLM PUBMED) (NLM PUBMED) nation Database ( elopment Environ elopment High Pr elopment Screeni bstances)	emicals nt Scheme CCID) ment, Hea oduction V ing Informa	(NICNAS) Ith, and Safety Publicat olume Chemicals Prog	
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Revision Note Disclaimer	e	kerormatt	ed and updated e	xisting info	ormation.	

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

This safety data sheet was created pursuant to the requirements of: Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Revision date 13-Sep-2023

Revision Number 1.1

1. Identification		
Product identifier		
Product Name	Aminex HPX Column	
Other means of identification		
Catalog Number(s)	1250094, 1250095, 1250096, 1250097, 12500	98, 1250140, 1250142, 1250143
Recommended use of the chemical	and restrictions on use	
Recommended use	Laboratory chemicals	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
<u>Corporate Headquarters</u> Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547 USA	<u>Manufacturer Address</u> Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547 USA	Legal Entity / Contact Address Bio-Rad Laboratories (Canada) Ltd. 1329 Meyerside Drive Mississauga, ON L5T 1C9 Canada
Technical Service	1-800-361-1808 support@bio-rad.com	
Emergency telephone number		
24 Hour Emergency Phone Number	CHEMTREC Canada:1 (800) 424-9300	

# 2. Hazard(s) identification

**Classification** 

Not classified

Label elements

# Hazard statements

Not classified.

Other information

3. Composition/information on ingredients

# Substance

Not applicable.

# <u>Mixture</u>

The product contains no substances which at their given concentration, are considered to be hazardous to health

# 4. First-aid measures

Description of 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 physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Rinse mouth thoroughly with water.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# 5. Fire-fighting measures

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	None known.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8 for more information.

# Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

# 7. Handling and storage

# Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store according to product and label instructions.

# 8. Exposure controls/personal protection

### Control parameters

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

### Appropriate engineering controls

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).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
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.

# 9. Physical and chemical properties

Information on basic physical and chemical properties		
Physical state	Solid	
Appearance	liquid - solid: mixture of	
Color	amber	
Odor	Odorless	
Odor threshold	No information available	
Property_	Values	Remarks • Method
pH		None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Boiling point / boiling range Flash point	No data available No data available	
		None known
Flash point	No data available	None known None known

Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Partially miscible	
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	Not applicable.	
Oxidizing properties	Not applicable.	
Softening point	Not applicable	
Molecular weight	Not applicable	
VOC content	Not applicable	

# 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
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.

# 11. Toxicological information

# Information on likely routes of exposure

**Product Information** 

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical, chemical and toxicological characteristics	

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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 sensitization	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.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

12. Ecological information	
Ecotoxicity	The environmental impact of this product has not been fully investigated.
Persistence and degradability Bioaccumulation	No information available. No information available.
Other adverse effects	No information available.

13. Disposal considerations		
Waste treatment methods		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	

# 14. Transport information

TDG	Not regulated
DOT	Not regulated
ΙΑΤΑ	Not regulated

# 15. Regulatory information

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

# **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

### International Inventories

Contact supplier for inventory compliance status

16. Other	information						
<u>NFPA</u>	Health hazard	<b>ls</b> 0	Flammability	0	Instability	0	Physical and chemical properties -
<u>HMIS</u>	Health hazard	<b>ls</b> 0	Flammability	0	Physical h	azards 0	Personal protection X
Key or legend	I to abbreviations and ac	ronyms	used in the safe	ty data sh	eet_		
	ion 8: EXPOSURE CONT				OTE	. (Ob a st T a su	
TWA Ceiling	TWA (time-weighted Maximum limit value	average)	*	STEL		designation	n Exposure Limit)
Agency for To: U.S. Environm European Foo EPA (Environm Acute Exposur U.S. Environm U.S. Environm Food Researc Hazardous Su International U Japan GHS CI Australia Nation NIOSH (Nation National Librar National Librar National Toxic New Zealand's Organization for Organization for	bstance Database Iniform Chemical Informati assification onal Industrial Chemicals N nal Institute for Occupation ry of Medicine's ChemID F ry of Medicine's PubMed c ology Program (NTP) s Chemical Classification a or Economic Co-operation or Economic Co-operation or Economic Co-operation stry of Toxic Effects of Che	se Registi hemView GL(s)) ederal Ins ligh Produ on Databa lotificatior al Safety lus (NLM atabase ( and Inform and Deve and Deve and Deve	ry (ATSDR) Database Secticide, Fungici Inction Volume Ch ase (IUCLID) and Assessmer and Health) CIP) NLM PUBMED) NLM PUBMED) NLM PUBMED) action Database ( elopment Environ elopment High Pr	de, and Ro remicals the Scheme (CCID) rent, Hea roduction V	(NICNAS) lith, and Safe /olume Chem	ty Publicatio nicals Progra	
Prepared By			aboratories, Envi	ronmental	Health and S	Safety.	
Revision date	• 1	3-Sep-20	23				
Revision Note Disclaimer	e F	Reformatte	ed and updated e	existing info	ormation.		

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

This safety data sheet was created pursuant to the requirements of: Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Revision date 12-Sep-2023

Revision Number 1.1

1. Identification		
Product identifier		
Product Name	Organic Acid Standard	
Other means of identification		
Catalog Number(s)	1250586, 9702421	
Recommended use of the chemical	and restrictions on use	
Recommended use	Laboratory chemicals	
Restrictions on use	No information available	
Details of the supplier of the safety of	data sheet	
<u>Corporate Headquarters</u> Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547 USA	Manufacturer Address Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547 USA	Legal Entity / Contact Address Bio-Rad Laboratories (Canada) Ltd. 1329 Meyerside Drive Mississauga, ON L5T 1C9 Canada
Technical Service	1-800-361-1808 support@bio-rad.com	
Emergency telephone number		
24 Hour Emergency Phone Number	CHEMTREC Canada:1 (800) 424-9300	

# 2. Hazard(s) identification

### **Classification**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

### Label elements

# Warning

## Hazard statements

Causes skin irritation Causes serious eye irritation May cause respiratory irritation



### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

### Skin

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

### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor if you feel unwell

### **Precautionary Statements - Storage**

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

### **Precautionary Statements - Disposal**

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

### Other information

# 3. Composition/information on ingredients

### Substance

Not applicable.

### Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health

# 4. First-aid measures

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

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

	eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
Most important symptoms and effe	ects, both acute and delayed
Symptoms	May cause redness and tearing of the eyes. Burning sensation.
Indication of any immediate medica	al attention and special treatment needed
Note to physicians	Treat symptomatically.

# 5. Fire-fighting measures

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	None known.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	

# 7. Handling and storage

# Precautions for safe handling

Advice on safe handling

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. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

# Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Store according to product and label instructions.

# 8. Exposure controls/personal protection

Control parameters	
Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Appropriate engineering controls	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
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	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

# 9. Physical and chemical properties

Information on basic physical and chemical propertiesPhysical stateSolidAppearancepowder or cake, lyophilizedColorwhiteOdorOdorlessOdor thresholdNo information available	
Property Values Remarks • Method	
pH None known	
Melting point / freezing point         No data available         None known	
Boiling point / boiling range         No data available         None known	
Flash point         No data available         None known	
Evaporation rate No data available None known	
Flammability (solid, gas)         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	
Vapor pressure         No data available         None known	
Vapor density No data available None known	
Relative density         No data available         None known	
Water solubility Soluble in water	
Solubility in other solvents No data available None known	

Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity	No data available No data available No data available No data available	None known None known None known None known None known
Other information Explosive properties Oxidizing properties Softening point Molecular weight VOC content	Not applicable. Not applicable. Not applicable Not applicable Not applicable	

# 10. Stability and reactivity

Reactivity	No information available.	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	None known based on information supplied.	
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.	
Hazardous decomposition products None known based on information supplied.		

# 11. Toxicological information

# Information on likely routes of exposure

Product Information	
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Redness. May cause redness and tearing of the eyes.
Acute toxicity	
Numerical measures of toxicity	

Component Information			
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
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 serious eye irritation.		

Respiratory or skin sensitization	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.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

# 12. Ecological information Ecotoxicity The environmental impact of this product has not been fully investigated. Persistence and degradability No information available. Bioaccumulation No information available. Other adverse effects No information available.

13. Disposal considerations			
Waste treatment methods			
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		

# 14. Transport information

TDG	Not regulated
DOT	Not regulated
IATA	Not regulated

# 15. Regulatory information

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

# 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

### **International Inventories**

Contact supplier for inventory compliance status

materials or in any process, unless specified in the text.

16. Other inform	nation				
NFPA	Health hazards 2	Flammability	0	Instability 0	Physical and chemical
HMIS	Health hazards 2	Flammability	0	Physical hazards 0	properties - Personal protection X
Key or legend to abb	reviations and acronyms	used in the safe	ty data	a sheet	
Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONTWATWA (time-weighted average)STELSTEL (Short Term Exposure Limit)CeilingMaximum limit value*Skin designation					
Ceiling       Maximum limit value       *       Skin designation         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         Australia 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 Development Environment, Health, and Safety Publications         Organization for Economic Co-operation and Development Screening Information Data Set         RTECS (Registry of Toxic Effects of Chemical Substances)         World Health Organization					
Prepared By	Bio-Rad	_aboratories, Envi	ronme	ntal Health and Safety.	
Revision date	12-Sep-2	023			
Revision Note         Reformatted and updated existing information.           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					

End of Safety Data Sheet

relates only to the specific material designated and may not be valid for such material used in combination with any other