KIT SAFETY DATA SHEET



Kit Product Name dd-Check Salmonella Kit

Kit Catalogue Number(s) 12016426

Revision date 02-Dec-2021

Kit Contents

Catalogue Number(s)	Product Name
10049219, 12009604	Supermix
12016434	ddP Primer-Probe Mix
12016512	ddC Positive Control

KIT / BE Page 1/22



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Revision date 02-Dec-2021 Revision Number 1.1

1. IDENTIFICATION

Product identifier

Supermix **Product Name**

Other means of identification

Catalogue Number(s) 10049219, 12009604

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use Recommended use Laboratory chemicals

Supplier's details

Corporate Headquarters Manufacturer

Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Pvt. Ltd. Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive 2000 Alfred Nobel Drive

Hercules, CA 94547 Hercules, California 94547 USA

USA

Legal Entity / Contact Address

Bio-Rad House

86-87, Udyog Vihar Phase IV Gurgaon

122005 Haryana India

Bio-Rad Laboratories (Pty) Ltd.

34 Bolton Road

Parkwood, Johannesburg 2193

South Africa

India: 91-124-4029300 or 1-800-180-1224 **Technical Service**

> South Africa: 27-11-442-85-08 India: support.india@bio-rad.com

South Africa: cdg_techsupport_eemea@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC India: 000-800-100-7141

CHEMTREC South Africa: 0-800-983-611

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Label elements, including precautionary statements

Other hazards which do not result in classification

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%
Water	7732-18-5	72.9543
7732-18-5		
1,2,3-Propanetriol	56-81-5	15.4524
56-81-5		0. 400/
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%
2-Deoxyadenosine 5-(disodium dihydrogen triphosphate) 74299-50-6	74299-50-6	0.7164
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%
Sodium azide 26628-22-8	26628-22-8	0.0669
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%
Trade secret	-	0 - 10%

4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation Remove to fresh air.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

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

Consult a physician.

Ingestion Rinse mouth thoroughly with water.

For emergency responders

Self-protection of the first aider No information available.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

No information available.

Special protective actions for fire-fighters

Special protective equipment and precautions 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.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological 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.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

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 Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

	Chemical name	ACGIH TLV	OSHA PEL	Ontario	European Union
Γ	1,2,3-Propanetriol	No data available	TWA: 15 mg/m ³ mist, total	-	-
1	56-81-5		particulate		
1			TWA: 5 mg/m ³ mist,		
L			respirable fraction		

			(vacated) TWA:	10 mg/m ³				
			mist, total par	rticulate				
			(vacated) TWA	: 5 mg/m³				
			mist, respirable	e fraction				
Sodium azide	Ceiling: 0.29 mg/m ³ Sc	dium	(vacated)) S*	CEV:	0.29 mg/m ³		TWA: 0.1 mg/m ³
26628-22-8	azide		(vacated) Ceiling	g: 0.1 ppm	CEV	: 0.11 ppm		STEL: 0.3 mg/m ³
	Ceiling: 0.11 ppm Hydi	azoic	HN3					*
	acid vapor		(vacated) Ceiling	: 0.3 mg/m ³				
			NaN3					
Chemical name	China	Ja	pan Society of	OI	EL	Australia		Taiwan
		Occi	upational Health					
1,2,3-Propanetriol	-		-	TWA: 10	0 mg/m ³	10 mg/m ³		-
56-81-5					_			
Sodium azide	Ceiling: 0.3 mg/m ³		-	Ceiling: 0.	.29 mg/m ³	0.11 ppm Pea	ak	Ceiling: 0.11 ppm
26628-22-8	Ceiling				_	0.3 mg/m ³ Pe	ak	Ceiling: 0.29 mg/m ³

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).

Skin and body protectionWear 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearanceaqueous solutionOdourOdourless

Colourlight yellowOdour thresholdNo information available

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

pH 7.8

Melting point / freezing point

Boiling point / boiling range

No information available
No information available

Flash point 160 °C / 320 °F

Evaporation rateNo information availableFlammability (solid, gas)No information available

Upper/lower flammability or explosive limits

Upper flammability or explosive Not applicable

limits

Lower flammability or explosive Not applicable

limits

Vapour pressureNo information availableVapour densityNo information availableRelative densityNo information available

Solubility(ies)

Water solubility Miscible in water

Solubility in other solvents

Partition coefficient

Autoignition temperature

Decomposition temperature

No information available

No information available

No information available

Viscosity

Kinematic viscosity

No information available

Dynamic viscosity

Other information

Oxidising properties Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None Sensitivity to static discharge None

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoidNone known based on information supplied.

Incompatible materials

Incompatible materials Metals.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on the 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 No information available.

Acute toxicity

Numerical measures of toxicity

3.6919 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
7.1054 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
22.5578 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
22.5578 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
7.1054 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Revision date 02-Dec-2021

Supermix

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
1,2,3-Propanetriol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h
Trade secret	= 5700 mg/kg (Rat) = 16 g/kg (Rat)	-	= 320 mg/m ³ (Rat) 4 h
Trade secret	= 2800 mg/kg (Rat)	-	-
Trade secret	= 2600 mg/kg (Rat)	-	-
Trade secret	= 5900 mg/kg (Rat)	-	-
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (Rat)	-
Trade secret	= 37000 mg/kg (Rat) = 36700 µL/kg (Rat)	-	-
Trade secret	> 2000 mg/kg (Rat)	-	-

Delayed and immediate effects and also chronic effects from short and long term exposure

No information available.

Skin corrosion/irritationNo information available.Serious eye damage/irritationNo information available.Respiratory or skin sensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.Reproductive toxicityNo information available.STOT - single exposureNo information available.

Target organ effects Kidney, Respiratory system, Eyes, Skin.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Toxicity

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

Ecotoxicity

STOT - repeated exposure

Chemical name	Algae/aquatic plants	Fish	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	EC50: >500mg/L (24h, Daphnia
· ·		Oncorhynchus mykiss)	magna)
Trade secret	EC50: >82.7mg/L (72h,	LC50: 1970 - 3880mg/L (96h,	EC50: =140mg/L (48h, Daphnia
	Pseudokirchneriella subcapitata)	Pimephales promelas)	magna)
		LC50: =4210mg/L (96h, Gambusia	EC50: =1400mg/L (24h, Daphnia
		affinis)	magna)
Trade secret	EC50: =2500mg/L (72h,	LC50: 750 - 1020mg/L (96h,	EC50: =825mg/L (48h, Daphnia
	Desmodesmus subspicatus)	Pimephales promelas)	magna)
		LC50: =1060mg/L (96h, Lepomis	EC50: =83mg/L (48h, Daphnia

		macrochirus)	magna)
Sodium azide	-	LC50: =0.7mg/L (96h, Lepomis	-
		macrochirus)	
		LC50: =0.8mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: =5.46mg/L (96h, Pimephales	
		promelas)	
Trade secret	EC50: =1.01mg/L (72h,	LC50: 34 - 62mg/L (96h, Lepomis	EC50: =113mg/L (48h, Daphnia
	Desmodesmus subspicatus)	macrochirus)	magna)
		LC50: 44.2 - 76.5mg/L (96h,	
		Pimephales promelas)	

Persistence and degradability

No information available.

Bioaccumulative potential

There is no data for this product.

Mobility

Mobility in soil No information available.

Mobility No information available.

Chemical name	Partition coefficient	
1,2,3-Propanetriol	-1.76	

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal 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

IMDG Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

Special precautions for user

Special provisions from the regulations relative to the specified mode of transport are noted

by numeric code. Refer to the regulations for the full text of special provisions.

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

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 02-Dec-2021

Revision Note SDS sections updated. 1. 2.

Key or legend to abbreviations and acronyms used in the safety data sheet

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

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: The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Revision date 02-Dec-2021 Revision Number 1

1. IDENTIFICATION

Product identifier

ddP Primer-Probe Mix **Product Name**

Other means of identification

Catalogue Number(s) 12016434

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use Recommended use Laboratory chemicals

Supplier's details

Corporate Headquarters Manufacturer

Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Pvt. Ltd. Bio-Rad Laboratories Inc. 2000 Alfred Nobel Drive 1000 Alfred Nobel Drive Hercules, California 94547

Hercules, CA 94547

USA USA **Legal Entity / Contact Address**

Bio-Rad House

86-87, Udyog Vihar Phase IV Gurgaon

122005 Haryana India

Bio-Rad Laboratories (Pty) Ltd.

34 Bolton Road

Parkwood, Johannesburg 2193

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South Africa: cdg_techsupport_eemea@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC India: 000-800-100-7141

CHEMTREC South Africa: 0-800-983-611

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS)

GHS Label elements, including precautionary statements

Other hazards which do not result in classification

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%
1,2,3-Propanetriol	56-81-5	11.6889
56-81-5		

4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation Remove to fresh air.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

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

Consult a physician.

Ingestion Rinse mouth thoroughly with water.

For emergency responders

Self-protection of the first aiderNo information available.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physiciansTreat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

No information available.

Special protective actions for fire-fighters

Special protective equipment and precautions 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.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological 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.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

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 Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA P	EL (Ontario	European Union
1,2,3-Propanetriol	No data available	TWA: 15 mg/m ³	mist, total	-	-
56-81-5		particula	ate		
		TWA: 5 mg/m	n ³ mist,		
		respirable fr	action		
		(vacated) TWA:	10 mg/m ³		
		mist, total par	rticulate		
		(vacated) TWA	: 5 mg/m³		
		mist, respirable	e fraction		
Chemical name	China	Japan Society of	OEL	Australia	Taiwan
		Occupational Health			
1,2,3-Propanetriol	-	=	TWA: 10 mg/m ³	10 mg/m ³	-
56-81-5					

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).

Skin and body protectionWear 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance aqueous solution Odour Odourless

Colour pink Odour threshold No information available

ddP Primer-Probe Mix Revision date 02-Dec-2021

No information available

Values Remarks • Method **Property**

8.3 рH

Melting point / freezing point Boiling point / boiling range > 100 °C / 212 °F

Flash point No information available No information available **Evaporation rate** Flammability (solid, gas) No information available

Upper/lower flammability or explosive limits Upper flammability or explosive Not applicable limits

Lower flammability or explosive Not applicable

limits

Vapour pressure No information available Vapour density No information available Relative density No information available

Solubility(ies)

Miscible in water Water solubility

No information available Solubility in other solvents Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available

Viscosity

No information available Kinematic viscosity

Dynamic viscosity

Other information

Oxidising properties Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Reactivity No information available.

Chemical stability

Stable under normal conditions. Stability

Explosion data

Sensitivity to mechanical impact None Sensitivity to static discharge

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

None known based on information supplied. Incompatible materials

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on the 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 No information available.

Acute toxicity

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,2,3-Propanetriol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m ³ (Rat) 1 h

Delayed and immediate effects and also chronic effects from short and long term exposure

Skin corrosion/irritationNo information available.

Serious eye damage/irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ effects Kidney, Respiratory system, Eyes, Skin.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Toxicity

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

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	EC50: >500mg/L (24h, Daphnia
-		Oncorhynchus mykiss)	magna)

Persistence and degradability

No information available.

Bioaccumulative potential

There is no data for this product.

Mobility

Mobility in soil No information available.

Mobility No information available.

Chemical name	Partition coefficient
1,2,3-Propanetriol	-1.76

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal 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

<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

RID Not regulated

ADR Not regulated

ADN Not regulated

Special precautions for user

Special provisions from the regulations relative to the specified mode of transport are noted

by numeric code. Refer to the regulations for the full text of special provisions.

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

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 02-Dec-2021

Revision Note*** Indicates this information has changed since the previous revision.

Key or legend to abbreviations and acronyms used in the safety data sheet

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

Disclaimer

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End of Safety Data Sheet



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Revision date 02-Dec-2021 Revision Number 1

1. IDENTIFICATION

Product identifier

ddC Positive Control **Product Name**

Other means of identification

Catalogue Number(s) 12016512

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use Recommended use Laboratory chemicals

Supplier's details

Corporate Headquarters Manufacturer

Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Pvt. Ltd. Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive 2000 Alfred Nobel Drive

Hercules, CA 94547 Hercules, California 94547 USA

USA

Legal Entity / Contact Address

Bio-Rad House

86-87, Udyog Vihar Phase IV Gurgaon

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Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC India: 000-800-100-7141

CHEMTREC South Africa: 0-800-983-611

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS)

GHS Label elements, including precautionary statements

Other hazards which do not result in classification

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

GHS / BE Page 17 / 22 ddC Positive Control Revision date 02-Dec-2021

Mixture

4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation Remove to fresh air.

Skin contactWash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

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

Consult a physician.

Ingestion Rinse mouth thoroughly with water.

For emergency responders

Self-protection of the first aiderNo information available.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of immediate medical attention and special treatment needed, if necessary

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

No information available.

Special protective actions for fire-fighters

Special protective equipment and precautions 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.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological 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.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

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 Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines 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).

Skin and body protection Wear suitable protective clothing.

Hand protection Wear suitable gloves.

Respiratory protectionNo protective equipment is needed under normal use conditions. If exposure limits are

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

No information available

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 Liquid

Appearanceaqueous solutionOdourOdourless

Colour colourless **Odour threshold** No information available

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

pH 8.3

Melting point / freezing point

Selling point / freezing point

Boiling point / boiling range > 100 °C / 212 °F

Flash point

Evaporation rate

No information available
No information available
No information available
No information available

Upper/lower flammability or explosive limits
Upper flammability or explosive Not applicable

limits

Lower flammability or explosive Not applicable

limits

Vapour pressure No information available

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Vapour densityNo information availableRelative densityNo information available

Solubility(ies)

Water solubility

Miscible in water

Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature

No information available No information available No information available

No information available

Viscosity

Kinematic viscosity

No information available

Dynamic viscosity

Other information

Oxidising properties Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on the 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 No information available.

Acute toxicity

Numerical measures of toxicity

Delayed and immediate effects and also chronic effects from short and long term exposure

Skin corrosion/irritationNo information available.

Serious eye damage/irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Toxicity

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

Ecotoxicity The environmental impact of this product has not been fully investigated.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility

Mobility in soil No information available.

Mobility No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal 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.

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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

RID Not regulated

ADR Not regulated

ADN Not regulated

Special precautions for user

Special provisions from the regulations relative to the specified mode of transport are noted

by numeric code. Refer to the regulations for the full text of special provisions.

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

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 02-Dec-2021

Revision Note*** Indicates this information has changed since the previous revision.

Key or legend to abbreviations and acronyms used in the safety data sheet

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

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