# KIT SAFETY DATA SHEET



Kit Product Name Variant II Turbo A1c Reorder Pack

**Kit Catalogue Number(s)** 2702415, 2702417

Revision date 22-Sep-2021

# **Kit Contents**

Catalogue Number(s)	Product Name
2702401	Variant II Turbo A1c Elution Buffer A
2702402	Variant II Turbo A1c Elution Buffer B
2702411	Variant II Turbo Analytical Cartridge
2702412	Variant II Turbo Guard Cartridge
2702405	Variant II Turbo A1c Calibrator 1
2702406	Variant II Turbo A1c Calibrator 2
2700351, 2700352, 2700350	Whole Blood Primer
2200119	Calibrator Diluent

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# **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 17-Aug-2021 Revision Number 1

1. IDENTIFICATION

Product identifier

Product Name Variant II Turbo A1c Elution Buffer A

Other means of identification

Catalogue Number(s) 2702401

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Supplier's details

<u>Corporate Headquarters</u> <u>Manufacturer</u>

Bio-Rad Laboratories Inc.

Bio-Rad Laboratories, Diagnostic Group
4000 Alfred Nobel Drive
4000 Alfred Nobel Drive

Hercules, CA 94547 Hercules, California 94547

USA USA

Legal Entity / Contact Address

Bio-Rad Laboratories Pvt. Ltd.

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

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

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

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**

# 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

# 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.

Incompatible materials Metals.

# 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 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
 Colourless
 Odour threshold
 No information available

PropertyValuesRemarks • MethodpHNo information available

Melting point / freezing point 0 °C / 32 °F

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

Flash point

Evaporation rate

Flammability (solid, gas)

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 pressureNo information availableVapour densityNo information available

#### Variant II Turbo A1c Elution Buffer A

Revision date 17-Aug-2021

Relative density No information available

Solubility(ies)

Water solubility

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

**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

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

Metals. 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.

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

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/irritation**No 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.

**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**

#### 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.

# 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 17-Aug-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

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**End of Safety Data Sheet** 



# **SAFETY DATA SHEET**

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Revision date 17-Aug-2021 Revision Number 1

1. IDENTIFICATION

Product identifier

Variant II Turbo A1c Elution Buffer B **Product Name** 

Other means of identification

Catalogue Number(s) 2702402

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Supplier's details

**Corporate Headquarters** Manufacturer

Bio-Rad Laboratories, Diagnostic Group Bio-Rad Laboratories Inc. 4000 Alfred Nobel Drive 1000 Alfred Nobel Drive

Hercules, CA 94547 Hercules, California 94547 USA USA

**Legal Entity / Contact Address** 

Bio-Rad Laboratories Pvt. Ltd.

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

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# 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

# 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

# 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.

Incompatible materials Metals.

# 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 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
 Colourless
 Odour threshold
 No information available

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

pH No information available

Melting point / freezing point  $0 \, ^{\circ}\text{C} \, / \, 32 \, ^{\circ}\text{F}$ 

Boiling point / boiling rangeNo information availableFlash pointNo information availableEvaporation 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 available

#### Variant II Turbo A1c Elution Buffer B

Revision date 17-Aug-2021

Relative density No information available

Solubility(ies)

Water solubility

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

**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

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

Metals. 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.

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

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/irritation**No 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.

**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**

#### 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.

# 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 17-Aug-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

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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 22-Sep-2021 Revision Number 1

1. IDENTIFICATION

Product identifier

Variant II Turbo Analytical Cartridge **Product Name** 

Other means of identification

Catalogue Number(s) 2702411

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Supplier's details

**Corporate Headquarters** Manufacturer

Bio-Rad Laboratories, Diagnostic Group Bio-Rad Laboratories Inc. 4000 Alfred Nobel Drive 1000 Alfred Nobel Drive

Hercules, CA 94547 Hercules, California 94547 USA USA

**Legal Entity / Contact Address** 

Bio-Rad Laboratories Pvt. Ltd.

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** 

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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

# 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

### 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.

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

AppearancegranulesOdourOdourless

ColourWhiteOdour thresholdNo information available

Property Values Remarks • Method

pH No information available
Melting point / freezing point No information available
Boiling point / boiling range No information available
Flash point No information available
Evaporation rate No information available
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 pressureNo information availableVapour densityNo information availableRelative densityNo information available

Solubility(ies)

#### Variant II Turbo Analytical Cartridge

Water solubility

Insoluble in water

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

Decomposition temperature

Revision date 22-Sep-2021

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

**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 materials**None 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** 

Revision date 22-Sep-2021

98 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

98 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

**Skin corrosion/irritation**No information available.

**Serious eve 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.

**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.

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

# 14. TRANSPORT INFORMATION

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL and the IBC

No information available

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.

Revision date 22-Sep-2021

# 15. REGULATORY INFORMATION

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

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**International Inventories** 

Contact supplier for inventory compliance status

# **16. OTHER INFORMATION**

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Revision date 22-Sep-2021

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Ceiling Maximum limit value \* Skin designation

C Carcinogen

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# **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 22-Sep-2021 Revision Number 1

1. IDENTIFICATION

Product identifier

Variant II Turbo Guard Cartridge **Product Name** 

Other means of identification

Catalogue Number(s) 2702412

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Supplier's details

**Corporate Headquarters** Manufacturer

Bio-Rad Laboratories, Diagnostic Group Bio-Rad Laboratories Inc. 4000 Alfred Nobel Drive 1000 Alfred Nobel Drive

Hercules, CA 94547 Hercules, California 94547 USA

USA

**Legal Entity / Contact Address** 

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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

### Mixture

# 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

# 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.

Revision date 22-Sep-2021

**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.

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

AppearancegranulesOdourOdourless

ColourWhiteOdour thresholdNo information available

Property Values Remarks • Method

pH No information available
Melting point / freezing point No information available
Boiling point / boiling range No information available
Flash point No information available
Evaporation rate No information available
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 pressureNo information availableVapour densityNo information availableRelative densityNo information available

Solubility(ies)

#### Variant II Turbo Guard Cartridge

Water solubility

Insoluble in water

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

Revision date 22-Sep-2021

No information available

Decomposition temperature Viscosity Kinematic viscosity

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 materials**None 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** 

Revision date 22-Sep-2021

98 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

98 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

**Skin corrosion/irritation**No 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.

**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.

Revision date 22-Sep-2021

Contaminated packaging Do not reuse empty containers.

# 14. TRANSPORT INFORMATION

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL and the IBC

No information available

Code

IATA Not regulated

RID Not regulated

Not regulated ADR

Not regulated ADN

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

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** 22-Sep-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



# 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 12-Aug-2021 Revision Number 2

1. IDENTIFICATION

Product identifier

Product Name Variant II Turbo A1c Calibrator 1

Other means of identification

Catalogue Number(s) 2702405

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Supplier's details

Corporate Headquarters Manufacturer

Bio-Rad Laboratories Inc.

Bio-Rad Laboratories, Diagnostic Group
1000 Alfred Nobel Drive

4000 Alfred Nobel Drive

USA

Hercules, CA 94547

USA

Legal Entity / Contact Address

Bio-Rad Laboratories Pvt. Ltd.

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

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

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

Hercules, California 94547

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

<u>Mixture</u>

Revision date 12-Aug-2021

\_\_\_\_

# 4. FIRST AID MEASURES

Description of necessary first aid measures

**Inhalation** Remove to fresh air.

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

Eye contact Call a physician.

**Ingestion** Call a physician.

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

# 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**Clean contaminated surface thoroughly.

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

Revision date 12-Aug-2021

# 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

Evewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

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

Skin and body protection Wear suitable protective clothing.

Wear suitable gloves. Hand protection

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** solid

Odour Odourless

Colour red Odour threshold No information available

Remarks • Method **Property** Values

No information available Melting point / freezing point No information available Boiling point / boiling range No information available Flash point No information available **Evaporation rate** No information available No information available Flammability (solid, gas)

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)

Water solubility

Soluble in water Solubility in other solvents

No information available **Partition coefficient** No information available

Variant II Turbo A1c Calibrator 1

Revision date 12-Aug-2021

Autoignition temperatureNo information availableDecomposition temperatureNo 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 materials**None 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**

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

19.786 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

19.786 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

Revision date 12-Aug-2021

19.786 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 19.786 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Component Information

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

**Skin corrosion/irritation**No 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 Respiratory system, Eyes.

**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.

# 14. TRANSPORT INFORMATION

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL and the IBC

No information available

Code

IATA Not regulated

RID Not regulated

Not regulated ADR

Not regulated ADN

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

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** 12-Aug-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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# 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 17-Aug-2021 Revision Number 1

1. IDENTIFICATION

Product identifier

Variant II Turbo A1c Calibrator 2 **Product Name** 

Other means of identification

Catalogue Number(s) 2702406

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Supplier's details

**Corporate Headquarters** Manufacturer

Bio-Rad Laboratories, Diagnostic Group Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive 4000 Alfred Nobel Drive

Hercules, CA 94547 Hercules, California 94547 USA

USA

**Legal Entity / Contact Address** 

Bio-Rad Laboratories Pvt. Ltd.

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

# 4. FIRST AID MEASURES

Description of necessary first aid measures

**Inhalation** Remove to fresh air.

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

Eye contact Call a physician.

**Ingestion** Call a physician.

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

# 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**Clean contaminated surface thoroughly.

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

Revision date 17-Aug-2021

# 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.

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 solid Odour Odourless

ColourredOdour thresholdNo information available

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

pHNo information availableMelting point / freezing pointNo information availableBoiling point / boiling rangeNo information availableFlash pointNo information availableEvaporation 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 Soluble in water

Solubility in other solvents

Partition coefficient

No information available
No information available

#### Variant II Turbo A1c Calibrator 2

Revision date 17-Aug-2021

Autoignition temperatureNo information availableDecomposition temperatureNo 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 materials**None 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**

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

19.786 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

19.786 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

Revision date 17-Aug-2021

19.786 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 19.786 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Component Information

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

**Skin corrosion/irritation**No 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 Respiratory system, Eyes.

**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.

Revision date 17-Aug-2021

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

## 14. TRANSPORT INFORMATION

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL and the IBC

No information available

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 17-Aug-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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# 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 27-Aug-2021 Revision Number 1.2

1. IDENTIFICATION

Product identifier

Whole Blood Primer **Product Name** 

Other means of identification

Catalogue Number(s) 2700351, 2700352, 2700350

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Supplier's details

**Corporate Headquarters** Manufacturer

Bio-Rad Laboratories, Diagnostic Group Bio-Rad Laboratories Inc. 4000 Alfred Nobel Drive 1000 Alfred Nobel Drive

Hercules, CA 94547 Hercules, California 94547 USA USA

**Legal Entity / Contact Address** 

Bio-Rad Laboratories Pvt. Ltd.

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

Contains human source material and / or potentially infectious components

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Whole Blood Primer Revision date 27-Aug-2021

## **Mixture**

Chemical name	CAS No	Weight-%
Human Whole Blood NO-CAS-22	NO-CAS-22	65.523
DL-Threonine 80-68-2	80-68-2	32.459
Water 7732-18-5	7732-18-5	1.0065
Sodium chloride 7647-14-5	7647-14-5	0.999
Tobramycin 32986-56-4	32986-56-4	0.01
Gentamicin, sulfate (salt) 1405-41-0	1405-41-0	0.0024
Glycine, N,N-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate 6381-92-6	6381-92-6	0.0001

# 4. FIRST AID MEASURES

Description of necessary first aid measures

**Inhalation** Remove to fresh air.

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

Eye contact Call a physician.

**Ingestion** Call a physician.

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

# 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**Clean contaminated surface thoroughly.

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 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

AppearancesolidOdourOdourless

ColourredOdour thresholdNo information available

Whole Blood Primer Revision date 27-Aug-2021

Property Values Remarks • Method

pH No information available
Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
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 pressureNo information availableVapour densityNo information availableRelative densityNo information available

Solubility(ies)

Water solubility Soluble 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 materials**None 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**

32.459 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

32.459 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

32.459 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

32.459 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

32.459 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Sodium chloride	= 3 g/kg (Rat)	> 10 g/kg(Rabbit)	> 42 g/m³(Rat)1 h
Tobramycin	> 7500 mg/kg (Rat)	-	-
Gentamicin, sulfate (salt)	> 5 g/kg (Rat)	-	-

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

**Skin corrosion/irritation**No 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.

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
Sodium chloride	-	LC50: 4747 - 7824mg/L (96h,	EC50: 340.7 - 469.2mg/L (48h,

-

#### 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.

## 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 27-Aug-2021

**Revision Note** SDS sections updated. 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 17-Aug-2021 **Revision Number** 2

1. IDENTIFICATION

Product identifier

**Product Name** Calibrator Diluent

Other means of identification

Catalogue Number(s) 2200119

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Supplier's details

**Corporate Headquarters** Manufacturer

Bio-Rad Laboratories, Diagnostic Group Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive 4000 Alfred Nobel Drive

Hercules, CA 94547 Hercules, California 94547 USA

USA

**Legal Entity / Contact Address** 

Bio-Rad Laboratories Pvt. Ltd.

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

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

> 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

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 45 / 50

**Mixture** 

**CAS No** 7732-18-5

## 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 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

## 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.

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

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 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

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

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid

aqueous solution Odourless **Appearance** Odour

Colour colourless Odour threshold No information available

**Property** Values Remarks • Method No information available

Melting point / freezing point 0 °C / 32 °F

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

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

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 avoid**None known based on information supplied.

Incompatible materials

Incompatible materials Metals.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

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## Information on the likely routes of exposure

#### **Product Information**

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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/irritation**No 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.

**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**

## 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.

## 14. TRANSPORT INFORMATION

IMDG Not regulated

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Revision date 17-Aug-2021

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Ceiling Maximum limit value \* Skin designation

C Carcinogen

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