

# **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 1.1

1. IDENTIFICATION

Product identifier

Product Name UMETS by HPLC Dilution Reagent

Other means of identification

Catalogue Number(s) 1956043

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

Hercules, CA 94547 Hercules, California 94547

USA USA

Legal Entity / Contact Address
Bio-Rad Laboratories Pvt. Ltd.

Bio-Rad House

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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** 

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Chemical name	CAS No	Weight-%
Water	7732-18-5	95.9
7732-18-5		
Ammonium boron oxide ((NH4)B5O8)	12007-89-5	4
12007-89-5		
Ethylenediaminetetraacetic acid	60-00-4	0.1
60-00-4		

# 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.

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**Environmental precautions** 

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

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

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

# 7. HANDLING AND STORAGE

Precautions for safe handling

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

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 PEL	Ontario	European Union
Ammonium boron oxide	STEL: 6 mg/m <sup>3</sup> inhalable	=	-	=
((NH4)B5O8)	particulate matter			
12007-89-5	TWA: 2 mg/m <sup>3</sup> inhalable			
	particulate matter			

## 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

Liquid

Skin and body protection Wear suitable protective clothing.

Hand protection Wear suitable gloves.

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

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

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state

**Appearance** aqueous solution Odour Odourless

colourless No information available Colour **Odour threshold** 

Values Remarks • Method Property

7.5 рH

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

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

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

Solubility(ies)

Water solubility Miscible in water

Solubility in other solvents No information available 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

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

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**

4 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

- 4 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 4 % 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)	-	-
Ethylenediaminetetraacetic acid	> 2000 mg/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
Ethylenediaminetetraacetic acid	EC50: =1.01mg/L (72h,	LC50: 34 - 62mg/L (96h, Lepomis	EC50: =113mg/L (48h, Daphnia

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Desmodesmus subspicatus)	macrochirus) LC50: 44.2 - 76.5mg/L (96h, Pimephales promelas)	magna)
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#### 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** 27-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 (Short Term Exposure Limit) STEL

Ceiling Maximum limit value Skin designation

Carcinogen С

#### **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**