

# **SAFETY DATA SHEET**

Revision date 27-Aug-2021 **Revision Number** 1.1

1. Identification

**Product identifier** 

**Product Name UMETS by HPLC Dilution Reagent** 

Other means of identification

Catalog Number(s) 1956043

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Restrictions on use No information available

Details of the supplier of the safety data sheet

**Corporate Headquarters Manufacturer Address** 

Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Diagnostic Group 4000 Alfred Nobel Drive 1000 Alfred Nobel Drive Hercules, California 94547

Hercules, CA 94547 USA USA

1-800-361-1808 **Technical Service** 

CSD\_Techsupport@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Canada:1 (800) 424-9300

Bio-Rad Laboratories (Canada) Ltd. 2403 Guenette

Montreal, Quebec H4R 2E9

**Legal Entity / Contact Address** 

Canada

# 2. Hazard(s) identification

Classification

Not classified

Label elements

**Hazard statements** 

Not classified.

Other information

# 3. Composition/information on ingredients

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### Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Hazardous Material	Date HMIRA filed and
			Information Review Act	date exemption
			registry number	granted (if applicable)
			(HMIRA registry #)	
Water	7732-18-5	80 - 100	-	
Ammonium boron oxide ((NH4)B5O8)	12007-89-5	1 - 5	-	
Ethylenediaminetetraacetic acid	60-00-4	0.1 - 1	-	

### 4. First-aid measures

**Description of first aid measures** 

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

**Inhalation** Remove to fresh air.

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

Consult a physician.

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

**Ingestion** Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

# 5. Fire-fighting measures

surrounding environment.

**Unsuitable extinguishing media** No information available.

Specific hazards arising from the

chemical

None known.

**Explosion data** 

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

Special protective equipment for

fire-fighters

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

gear. Use personal protection equipment.

### 6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8 for more information.

Methods and material for containment and cleaning up

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

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

# 7. Handling and storage

### Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Store according to product and label instructions. **Storage Conditions** 

# 8. Exposure controls/personal protection

#### Control parameters

### **Exposure Limits**

Chemical name	Alberta	British Columbia	Ontario	Quebec
Ammonium boron oxide		TWA: 2 mg/m <sup>3</sup>		
((NH4)B5O8)		STEL: 6 mg/m <sup>3</sup>		
12007-89-5				

### Appropriate engineering controls

**Engineering controls** Showers

> Eyewash stations Ventilation systems.

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

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

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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

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

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

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

None known

None known

**Appearance** aqueous solution

Color colorless Odor Odorless

**Odor threshold** No information available

Property Values Remarks • Method

7.5 На

0 °C / 32 °F Melting point / freezing point = 100 °C / 212 °F **Boiling point / boiling range** 

Flash point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known None known

Flammability Limit in Air

Upper flammability or explosive limits

No data available

Lower flammability or explosive No data available

limits

No data available None known Vapor pressure None known Vapor density No data available Relative density No data available None known

Water solubility

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

None known None known No data available None known None known

Kinematic viscosity **Dynamic viscosity** 

No data available

Other information

**Explosive properties** Not applicable. **Oxidizing properties** Not applicable. Not applicable Softening point Not applicable Molecular weight Not applicable **VOC Content (%)** 

## 10. Stability and reactivity

Reactivity No information available.

Stable under normal conditions. **Chemical stability** 

Possibility of hazardous reactions None under normal processing.

None known based on information supplied. Conditions to avoid

None known based on information supplied. Incompatible materials

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

#### Information on likely routes of exposure

### **Product Information**

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Specific test data for the substance or mixture is not available. Skin contact

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Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

**Acute toxicity** 

Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
7732-18-5			
Ethylenediaminetetraacetic acid	> 2000 mg/kg (Rat)	-	-
60-00-4			

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

Skin corrosion/irritation Based on available data, the classification criteria are not met.

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

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

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

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

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

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

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

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

# 12. Ecological information

#### **Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethylenediaminetetraacet	EC50: =1.01mg/L (72h,	LC50: 34 - 62mg/L (96h,	-	EC50: =113mg/L (48h,
ic acid	Desmodesmus	Lepomis macrochirus)		Daphnia magna)
60-00-4	subspicatus)	LC50: 44.2 - 76.5mg/L		
		(96h, Pimephales		
		promelas)		

Persistence and degradability No information available.

Bioaccumulation No information available.

Other adverse effects No information available.

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# 13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

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

environmental legislation.

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

# 14. Transport information

TDGNot regulatedDOTNot regulatedMEXNot regulatedIATANot regulated

IMDG Not regulated

### 15. Regulatory information

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

**International Regulations** 

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

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories** 

Contact supplier for inventory compliance status

### 16. Other information

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and chemical properties -

HMIS Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

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

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

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

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

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

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

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

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

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

National Toxicology Program (NTP)

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

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

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

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

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

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**Revision Note** Significant changes throughout SDS. Review all sections.

**Disclaimer** 

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**End of Safety Data Sheet**