

SAFETY DATA SHEET

According to WHS Regulations

Revision date 27-Aug-2021 Revision Number 2.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product Name UMETS by HPLC Mobile Phase

Catalogue Number(s) 1956076

Other means of identification

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Uses advised against No information available

Details of manufacturer or importer

Corporate Headquarters Manufacturer

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
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Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Australia: 61-290372994

SECTION 2: Hazards identification

GHS Classification

Not classified

Label elements

Hazard statements

Not classified

Other hazards which do not result in classification

UGHS / BE Page 1/9

SECTION 3: Composition/information on ingredients

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%
Water	7732-18-5	50 - 100
Isopropyl alcohol	67-63-0	5 - 10
Diammonium phosphate	7783-28-0	0.3 - 0.999
Citric acid	77-92-9	0.1 - 0.299
Phosphoric acid	7664-38-2	0.01 - 0.099
Non-hazardous ingredients	Proprietary	Balance

SECTION 4: First aid measures

Description of first aid measures

General advice No hazards which require special first aid measures.

Emergency telephone number Poisons Information Centre, Australia: 13 11 26

Poisons Information Centre, New Zealand: 0800 764 766

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 doctor.

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 doctors Treat symptomatically.

SECTION 5: Firefighting measures

Suitable Extinguishing Media

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

None known.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8 for more information.

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 labelled containers.

Precautions to prevent secondary hazards

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

SECTION 7: Handling and storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Storage Conditions Store according to product and label instructions.

Incompatible materialsNone known based on information supplied.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	Australia	ACGIH TLV
Isopropyl alcohol	400 ppm	STEL: 400 ppm
67-63-0	983 mg/m ³	TWA: 200 ppm
	500 ppm STEL	
	1230 mg/m ³ STEL	
Phosphoric acid	1 mg/m ³	STEL: 3 mg/m ³
7664-38-2	3 mg/m³ STEL	TWA: 1 mg/m ³

Biological occupational exposure limits

UGHS / BE Page 3/9

Revision date 27-Aug-2021

Chemical name	Australia	ACGIH
Isopropyl alcohol	-	40 mg/L - urine (Acetone) - end of shift
67-63-0		at end of workweek

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

Wear suitable protective clothing. Skin and body protection

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.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance aqueous solution Colour No information available

Odour Odourless.

Odour threshold No information available

Property Values Remarks • Method

5.5

Melting point / freezing point No data available None known

93 °C Boiling point / boiling range

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

Upper flammability or explosive No data available limits

Lower flammability or explosive No data available

limits

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

Water solubility Miscible in water

Solubility(ies) No data available None known No data available **Partition coefficient** None known No data available None known **Autoignition temperature Decomposition temperature** None known

No data available Kinematic viscosity None known **Dynamic viscosity** No data available None known

Explosive properties Not applicable **Oxidising properties** Not applicable

Other information

Molecular weight Not applicable Not applicable **VOC Content (%)**

UGHS / BE Page 4/9

SECTION 10: Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoidNone known based on information supplied.

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information .

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

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

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

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

Symptoms No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 33,530.60 mg/kg

 ATEmix (dermal)
 72,781.10 mg/kg

 ATEmix (inhalation-dust/mist)
 1,301.7751 mg/l

Component Information

UGHS / BE Page 5/9

Revision date 27-Aug-2021

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Isopropyl alcohol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m³ (Rat) 4 h
Diammonium phosphate	> 2000 mg/kg (Rat)	> 5000 mg/kg(Rabbit)	-
Citric acid = 3 g/kg (Rat) = 3000 mg/kg (Rat)		> 2000 mg/kg (Rat)	-
Phosphoric acid	= 1530 mg/kg (Rat)	= 2740 mg/kg(Rabbit)	> 850 mg/m³(Rat)1 h

See section 16 for terms and abbreviations

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

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. 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 STOT - repeated exposure Based on available data, the classification criteria are not met.

Product Information

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

SECTION 12: Ecological information

Ecotoxicity

Ecotoxicity

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

environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Isopropyl alcohol	EC50: >1000mg/L (72h,	LC50: =11130mg/L (96h,	-	EC50: =13299mg/L (48h,
	Desmodesmus	Pimephales promelas)		Daphnia magna)
	subspicatus)	LC50: =9640mg/L (96h,		
	EC50: >1000mg/L (96h,	Pimephales promelas)		
	Desmodesmus	LC50: >1400000µg/L		
	subspicatus)	(96h, Lepomis		
		macrochirus)		
Diammonium phosphate	-	LC50: 24.8 - 29.4mg/L	-	-
		(96h, Oncorhynchus		
		mykiss)		
		LC50: =26.5mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =3.3mg/L (96h,		
		Pimephales promelas)		

UGHS / BE Page 6/9

		LC50: =33mg/L (96h, Pimephales promelas)		
Citric acid	-	LC50: =1516mg/L (96h,	-	EC50: =120mg/L (72h,
		Lepomis macrochirus)		Daphnia magna)
Phosphoric acid	-	LC50: 3 - 3.5mg/L (96h,	-	EC50: =4.6mg/L (12h,
		Gambusia affinis)		Daphnia magna)

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

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	Chemical name	Partition coefficient			
Isopropyl alcohol		0.05			
	Citric acid	-1.72			

Mobility

Mobility in soil No information available.

Mobility No information available.

Other adverse effects

Other adverse effects No information available.

SECTION 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.

SECTION 14: Transport information

ADG Not regulated

IMDG Not regulated

Not regulated

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

No information available

SECTION 15: Regulatory information

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

National regulations

Australia

See section 8 for national exposure control parameters

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poison Schedule Number

National pollutant inventory

Subject to reporting requirement

Chemical name	National pollutant inventory	
Isopropyl alcohol - 67-63-0	20 MW Threshold category 2b total	
	60000 MWH Threshold category 2b total	
	1 tonne/h Threshold category 2a total	
	25 tonne/yr Threshold category 1a total	
	400 tonne/yr Threshold category 2a total	
	2000 tonne/yr Threshold category 2b total	
Phosphoric acid - 7664-38-2	10 tonne/yr Threshold category 1	

International Inventories

Contact supplier for inventory compliance status

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

SECTION 16: Other information

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

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Revision Note Significant changes throughout SDS. Review all sections.

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

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

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

JGHS / BE Page 8/9

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)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

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

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Disclaimer

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End of Safety Data Sheet

UGHS / BE Page 9/9