

SAFETY DATA SHEET

According to WHS Regulations

Revision date 18-Feb-2025 Revision Number 1

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

Product identifier

Product Name Liquichek Serum Volatiles Control

Catalogue Number(s) 383, 384, 385X

Other means of identification

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use In vitro diagnostic

Uses advised against No information available

Details of manufacturer or importer

Corporate Headquarters
Bio-Rad Laboratories Inc.
1000 Alfred Nobel Drive
Hercules, CA 94547

Hercules, CA 9454 USA <u>Manufacturer</u>

Bio-Rad Laboratories Inc. 9500 Jeronimo Road Irvine, California 92618

USA

Legal Entity / Contact Address

Bio-Rad Laboratories Pty Ltd u1A, 62 Ferndell Street, South Granville NSW 2142

Australia

For further information, please contact

Technical Service +61 2 9914 2800 or 1800 224 354

sales.australia@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Australia: 61-290372994

SECTION 2: Hazards identification

GHS Classification

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

Label elements

Hazard statements

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

Other hazards which do not result in classification

Contains animal source material. (Horse). (Cattle).

Contains human source material and / or potentially infectious components

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SECTION 3: Composition/information on ingredients

Substance

Not applicable

<u>Mixture</u>

Chemical name	CAS No.	Weight-%
Sodium fluoride	7681-49-4	0.3 - 0.99
Sodium azide	26628-22-8	0.1 - 0.249
Methanol	67-56-1	0.01 - 0.099
Acetone	67-64-1	0.01 - 0.099
Ethylene glycol	107-21-1	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 Call a doctor. Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes.

Skin contact Wash with soap and water.

Ingestion Call a doctor.

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 doctorsTreat 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 None known.

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chemical

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.

For emergency responders Use personal protection recommended in Section 8.

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.

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

Incompatible materials None known based on information supplied.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	Australia	ACGIH TLV
Sodium fluoride 7681-49-4	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³ F
Sodium azide	Peak: 0.11 ppm	Ceiling: 0.29 mg/m³ Sodium azide
26628-22-8	Peak: 0.3 mg/m ³	Ceiling: 0.11 ppm Hydrazoic acid vapor
Methanol	TWA: 200 ppm	TWA: 200 ppm
67-56-1	TWA: 262 mg/m ³	STEL: 250 ppm

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	STEL: 250 ppm	Sk*
	STEL: 328 mg/m ³	
Acetone	TWA: 500 ppm	TWA: 250 ppm
67-64-1	TWA: 1185 mg/m ³	STEL: 500 ppm
	STEL: 1000 ppm	
	STEL: 2375 mg/m ³	
Ethylene glycol	TWA: 10 mg/m ³	TWA: 25 ppm vapor fraction
107-21-1	TWA: 20 ppm	STEL: 50 ppm vapor fraction
	TWA: 52 mg/m ³	STEL: 10 mg/m ³ inhalable particulate
	STEL: 40 ppm	matter, aerosol only
	STEL: 104 mg/m ³	, and the second

Biological occupational exposure limits

Chemical name	Australia	ACGIH
Sodium fluoride	-	2 mg/L - urine (Fluoride) - prior to shift
7681-49-4		3 mg/L - urine (Fluoride) - end of shift
Methanol	-	15 mg/L - urine (Methanol) - end of
67-56-1		shift
Acetone	-	25 mg/L - urine (Acetone) - end of shift
67-64-1		

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

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

Skin and body protectionWear suitable protective clothing.

Hand protection Wear suitable gloves.

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

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance No information available

Colourlight yellowOdourSlight.

Odour threshold No information available

Property Values Remarks • Method

pH 7.4 - 8.0

Melting point / freezing pointNo data availableNone knownInitial boiling point and boiling rangeNo data availableNone knownFlash pointNo data availableNone knownEvaporation rateNo data availableNone known

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FlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available None known Vapour pressure Relative vapour density No data available None known No data available Relative density None known Water solubility Miscible in water None known Solubility(ies) No data available None known **Partition coefficient** No data available None known No data available **Autoignition temperature** None known **Decomposition temperature** None known Kinematic viscosity No data available None known None known

Dynamic viscosityNo data availableExplosive propertiesNot applicableOxidising propertiesNot applicable

Other information

Molecular weightNot applicableVOC contentNot applicable

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 avoid None known based on information supplied.

Incompatible materials

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

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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

No information available

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium fluoride	= 52 mg/kg (Rat)	= 175 mg/kg (Rat)	-
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit)	0.054 - 0.52 mg/L (Rat) 4 h
Methanol	= 6200 mg/kg (Rat)	= 15840 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h
Acetone	= 5800 mg/kg (Rat)	> 15700 mg/kg (Rabbit)	= 50100 mg/m ³ (Rat) 8 h
Ethylene glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat)6 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.

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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.

SECTION 12: Ecological information

Ecotoxicity

EcotoxicityThe environmental impact of this product has not been fully investigated.

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Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium fluoride	EC50: =272mg/L (96h,	LC50: >530mg/L (96h,	-	EC50: =338mg/L (48h,
	Pseudokirchneriella	Lepomis macrochirus)		Daphnia magna)
	subcapitata)	LC50: =830mg/L (96h,		EC50: =98mg/L (48h,
	EC50: =850mg/L (72h,	Lepomis macrochirus)		Daphnia magna)
	Desmodesmus	LC50: 38 - 68mg/L (96h,		
	subspicatus)	Oncorhynchus mykiss)		
		LC50: =180mg/L (96h,		
		Pimephales promelas)		
Sodium azide	-	LC50: =0.8mg/L (96h,	-	-
		Oncorhynchus mykiss)		
		LC50: =0.7mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =5.46mg/L (96h,		
		Pimephales promelas)		
Methanol	-	LC50: =28200mg/L (96h,	-	-
		Pimephales promelas)		
		LC50: >100mg/L (96h,		
		Pimephales promelas)		
		LC50: 19500 - 20700mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 18 - 20mL/L (96h,		
		Oncorhynchus mykiss)		
		LC50: 13500 - 17600mg/L		
		(96h, Lepomis		
		macrochirus)		
Acetone	-	LC50: 4.74 - 6.33mL/L	_	EC50: 10294 -
		(96h, Oncorhynchus		17704mg/L (48h, Daphnia
		mykiss)		magna)
		LC50: 6210 - 8120mg/L		EC50: 12600 -
		(96h, Pimephales		12700mg/L (48h, Daphnia
		promelas)		magna)
		LC50: =8300mg/L (96h,] , ,
		Lepomis macrochirus)		
Ethylene glycol	EC50: 6500 - 13000mg/L	LC50: =41000mg/L (96h,	-	EC50: =46300mg/L (48h,
	(96h, Pseudokirchneriella	Oncorhynchus mykiss)		Daphnia magna)
	subcapitata)	LC50: 14 - 18mL/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =27540mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =40761mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: 40000 - 60000mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: =16000mg/L (96h,		
		Poecilia reticulata)		
	l	. coma ronodiata)		1

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

Bioaccumulation There is no data for this product.

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Component Information

Chemical name	Partition coefficient
Methanol	-0.77
Acetone	-0.24
Ethylene glycol	-1.36

Mobility

Mobility in soil No information available.

Mobility No information available.

Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

Disposal methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

products 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

<u>Australia</u>

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 6

National pollutant inventory

Subject to reporting requirement

Chemical name	National pollutant inventory	
Sodium fluoride - 7681-49-4	10 tonne/yr Threshold category 1	
	400 tonne/yr Threshold category 2a	

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	1 tonne/h Threshold category 2a 2000 tonne/yr Threshold category 2b 60000 MWH Threshold category 2b 20 MW Threshold category 2b
Methanol - 67-56-1	10 tonne/yr Threshold category 1 VOC
Acetone - 67-64-1	10 tonne/yr Threshold category 1 VOC
Ethylene glycol - 107-21-1	10 tonne/yr Threshold category 1

Banned and/or restricted

This product contains one or more substance(s) subject to prohibition, authorisation or restriction. Verify that requirements related to using, handling, and storing substances subject to prohibition, authorisation or restriction are met.

Chemical name	Carcinogen	Restricted substance
Methanol - 67-56-1		For spray painting at a concentration of
		>1% by volume

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

Revision date 18-Feb-2025

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 Sk* 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)

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)

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

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

U.S. National Toxicology Program (NTP)

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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

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End of Safety Data Sheet

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