## SAFETY DATA SHEET

Revision date 29-Oct-2024 Revision Number 1.1

## **Section 1: Identification**

**Product identifier** 

Product Name Liquichek Urinalysis Control, Level 2

Catalogue Number(s) 437

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use In vitro diagnostic

Uses advised against No information available

Details of the supplier of the safety data sheet

<u>Supplier</u> <u>Manufacturer</u> <u>Importer</u>

Bio-Rad Laboratories Inc.

Bio-Rad Laboratories Inc.

Bio-Rad Laboratories Pty Ltd

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## **Section 2: Hazard identification**

#### **GHS Classification**

Skin sensitisation	Category 1
Chronic aquatic toxicity	Category 3

#### Label elements



#### Signal word Warning

#### **Hazard statements**

May cause an allergic skin reaction Harmful to aquatic life with long lasting effects

#### **Precautionary Statements - Prevention**

Avoid release to the environment

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Wear protective gloves/clothing and eye/face protection

#### Skin

IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice/attention

## **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Other hazards which do not result in classification

Contains animal source material. Contains components derived from human urine.

Contains human source material and / or potentially infectious components

## Section 3: Composition/information on ingredients

55965-84-9	0.001 - 0.01
67-64-1	0.001 - 0.01
64-17-5	0.001 - 0.01
26628-22-8	< 0.001
	67-64-1 64-17-5

Non-hazardous ingredients	Proprietary	Balance

## Section 4: First-aid measures

#### Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Contains components derived from

human urine.

**Inhalation** Remove to fresh air.

Eye contact Contains human source material and / or potentially infectious components. Rinse

thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. Call a doctor. Rinse immediately with plenty of water, also under the

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eyelids, for at least 15 minutes.

**Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a doctor.

**Ingestion** Contains human source material and / or potentially infectious components. Call a doctor.

#### Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives.

Effects of Exposure No information available.

## Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically. Contains human

source material and / or potentially infectious components.

## **Section 5: Fire-fighting measures**

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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

Product is or contains a sensitiser. May cause sensitisation by skin contact.

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.

#### Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

**Environmental precautions** 

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

Methods and material for containment and cleaning up

**Methods for containment** Do not allow into any sewer, on the ground or into any body of water.

Methods for cleaning up Use: Disinfectant. 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. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash it before reuse.

General hygiene considerations Follow universal and standard precautions for handling potentially infectious materials.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store according to

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product and label instructions.

Incompatible materials Metals.

## Section 8: Exposure controls/personal protection

#### **Control parameters**

#### **Exposure Limits**

Chemical name	New Zealand	Australia	ACGIH TLV	United Kingdom
Acetone	TWA: 500 ppm	TWA: 500 ppm	STEL: 500 ppm	TWA: 500 ppm
67-64-1	TWA: 1185 mg/m <sup>3</sup>	TWA: 1185 mg/m <sup>3</sup>	TWA: 250 ppm	TWA: 1210 mg/m <sup>3</sup>
	STEL: 1000 ppm	STEL: 1000 ppm		STEL: 1500 ppm
	STEL: 2375 mg/m <sup>3</sup>	STEL: 2375 mg/m <sup>3</sup>		STEL: 3620 mg/m <sup>3</sup>
Ethyl alcohol	TWA: 200 ppm	TWA: 1000 ppm	STEL: 1000 ppm	TWA: 1000 ppm
64-17-5	TWA: 380 mg/m <sup>3</sup>	TWA: 1880 mg/m <sup>3</sup>		TWA: 1920 mg/m <sup>3</sup>
	STEL: 800 ppm	-		STEL: 3000 ppm
	STEL: 1520 mg/m <sup>3</sup>			STEL: 5760 mg/m <sup>3</sup>
Sodium azide	Ceiling: 0.11 ppm	Peak: 0.11 ppm	Ceiling: 0.29 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
26628-22-8	Ceiling: 0.29 mg/m <sup>3</sup>	Peak: 0.3 mg/m <sup>3</sup>	Sodium azide	STEL: 0.3 mg/m <sup>3</sup>
	-		Ceiling: 0.11 ppm	Sk*
			Hydrazoic acid vapor	

## Biological occupational exposure limits

Chemical name	New Zealand	ACGIH
Acetone	50 mg/L - urine (Acetone) - end of shift	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).

**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.

**Environmental exposure controls** No information available.

## **Section 9: Physical and chemical properties**

Information on basic physical and chemical properties

Physical state Liquid

Appearance Clear to slightly cloudy

ColouramberOdourSlight.

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Odour threshold No information available

Property Values Remarks • Method

**pH** 6.5-8.0

Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known No data available None known Flash point None known **Evaporation rate** No data available Flammability 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 pressureNo data availableNone knownRelative vapour densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility

Solubility(ies)

Partition coefficient

No data available
No data available
No data available

Partition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone known

Dynamic viscosityNo data availableExplosive propertiesNo information available.Oxidising propertiesNo information available.

Other information

Softening point
Molecular weight
VOC content
Liquid Density
Bulk density
Particle characteristics
No information available
No information available
No information available
No information available

## 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 
Avoid contact with metals. This product contains Sodium azide. Sodium azide can react with

Copper, Brass, Lead, and solder in piping systems to form explosive compounds and toxic

None known

None known

gases.

Conditions to avoid

Conditions to avoid None known based on information supplied.

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Incompatible materials

Incompatible materials Metals.

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** May cause sensitisation by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

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susceptible persons (based on components).

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

Symptoms Itching. Rashes. Hives.

Acute toxicity .

Numerical measures of toxicity

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

**ATEmix (oral)** 608,986.30 mg/kg

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
5-Chloro-2-methyl-3(2H)-isothiazolone,	= 53 mg/kg (Rat)	= 87.12 mg/kg (Rabbit)	-
mixture with			
2-methyl-3(2H)-isothiazolone			
Acetone	= 5800 mg/kg (Rat)	> 15700 mg/kg (Rabbit)	= 50100 mg/m <sup>3</sup> (Rat) 8 h
			-
Ethyl alcohol	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h
			= 133.8 mg/L (Rat) 4 h
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit)	0.054 - 0.52 mg/L (Rat) 4 h
	- <del>-</del>		

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

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

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

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#### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	New Zealand	IARC
Ethyl alcohol - 64-17-5	-	Group 1

#### Legend

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

Data used to identify the health

effects

Refer to Section 16 for Key literature references and sources for data used to compile the

SDS.

## **Section 12: Ecological information**

#### **Ecotoxicity**

Aquatic ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Acetone	-	LC50: 4.74 - 6.33mL/L (96h,	EC50: 10294 - 17704mg/L
		Oncorhynchus mykiss)	(48h, Daphnia magna)
		LC50: 6210 - 8120mg/L (96h,	EC50: 12600 - 12700mg/L
		Pimephales promelas)	(48h, Daphnia magna)
		LC50: =8300mg/L (96h,	
		Lepomis macrochirus)	
Ethyl alcohol	-	LC50: 12.0 - 16.0mL/L (96h,	LC50: 9268 - 14221mg/L (48h,
		Oncorhynchus mykiss)	Daphnia magna)
		LC50: >100mg/L (96h,	EC50: =2mg/L (48h, Daphnia
		Pimephales promelas)	magna)
		LC50: 13400 - 15100mg/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)	

#### Terrestrial ecotoxicity

Chemical name	Earthworm	Avian	Honeybees
Acetone	Acute Toxicity: LC50 200 -	Dietary Toxicity: LC50 >	-
	1000 µg/cm2 (Eisenia foetida,	40000 ppm (Phasianus	
	48 h filter paper)	colchicus, 5 Days)	
		Dietary Toxicity: LC50 >	

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	40000 ppm (Coturnix coturnix japonica, 5 Days)	
Acute Toxicity: LC50 0.1 - 1 mg/cm2 (Eisenia foetida, 48 h filter paper)		-

Persistence and degradability

No information available.

#### Bioaccumulative potential

#### **Bioaccumulation**

Component Information

Chemical name	Partition coefficient
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone	0.7
Acetone	-0.24
Ethyl alcohol	-0.35

#### Mobility in soil

Mobility

No information available.

#### Other adverse effects

No information available.

## **Section 13: Disposal considerations**

#### Disposal methods

# Waste from residues/unused products

Dispose of product in packaging in a way that is consistent with the EPA Consolidation 30 April 2021 of the Hazardous Substances (Disposal) Notice 2017 and the Act.

Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the substance from New Zealand as waste.

Substances which are hazardous to human health or corrosive to metals – may be discharged into the environment if a tolerable exposure limit has been set for the substance (or a component of that substance); and the discharge does not, after reasonable mixing, result in the concentration of the substance in an environmental medium exceeding the tolerable exposure limit. If there is no tolerable exposure limit for the substance, then it may only be discharged into the environment if the substance is very rapidly converted to substances that are not hazardous substances.

Environmentally hazardous substances – if the substance, or if it contains a component that is hazardous to the aquatic environment or bioaccumulative and not rapidly degradable, then any component that is bioaccumulative and not rapidly degradable must be removed. The product may only be discharged into the environment if an environmental exposure limit has been set for the substance (or a component of the substance); and the discharge does not, after reasonable mixing, result in the concentration of the substance in an environmental medium exceeding the environmental exposure limit.

Dispose of in accordance with local regulations.

Dispose of waste in accordance with environmental legislation.

Flush pipes with water frequently if discarding solutions containing Sodium azide into metal piping systems.

#### Contaminated packaging

For packages that have been in direct contact with hazardous substances, the person must ensure that the package is rendered incapable of containing any substance. It must be disposed of in a manner that is consistent with the requirements for disposal of the substance that it contained, taking into account the material the package is manufactured

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from.

Packages may only be reused or recycled if:

- the substance has a physical hazard other than corrosive to metal, and has been treated to remove any residual contents of the hazardous substance:

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- or for substances that have a health or environmental hazard, or corrosive to metal, the contents of the residue in the package are below the threshold for the substance to be classified as hazardous in the Hazardous Substances (Hazard Classification) Notice 2020.

## **Section 14: Transport information**

IATA Not regulated

**IMDG** Not regulated

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

No information available

#### Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

## Section 15: Regulatory information

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

**National regulations** 

**EPA New Zealand HSNO approval** 

code or group standard

To be determined

**National regulations** 

There are no applicable tolerable exposure limits or environmental exposure limits

according to the EPA Controls for Hazardous Substances

Certified handlers, tracking and controlled substance license

requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information

Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information

Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for

more information

#### **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** 

**NZIoC** Contact supplier for inventory compliance status. **TSCA** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. DSL/NDSL Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. **ENCS IECSC** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **KECL** 

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PICCS Contact supplier for inventory compliance status.

AllC Contact supplier for inventory compliance status.

Legend:

NZIoC - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **Section 16: Other information**

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**Revision Note** Reviewed existing information and made minor updates.

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)

National Institute of Technology and Evaluation (NITE)

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)

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

World Health Organization

#### **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** 

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