

SAFETY DATA SHEET

According to WHS Regulations

Revision date 18-Feb-2022 Revision Number 1

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

Product identifier

Product Name Lyphochek Whole Blood Metals Control

Catalogue Number(s) 527, 528, 529, 528X

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 94547 USA <u>Manufacturer</u>

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

USA

Legal Entity / Contact Address

Bio-Rad Laboratories Pty Ltd Level 5

446 Victoria Road, Gladesville NSW 2111

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 classified

Label elements

Hazard statements

Not classified

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

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Harmful to aquatic life with long lasting effects Harmful to aquatic life

Contains human source material and / or potentially infectious components **General Hazards**

SECTION 3: Composition/information on ingredients

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%
Trade secret	-	1 - 2.5
Thallium	7440-28-0	< 0.001
Mercury	7439-97-6	< 0.001
Cadmium	7440-43-9	< 0.001
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

Remove to fresh air. Inhalation

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

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

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Contains human source material and / or potentially infectious components. Note to doctors

SECTION 5: Firefighting measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the **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 Do not allow into any sewer, on the ground or into any body of water.

Methods for cleaning up Clean contaminated surface thoroughly. Use:. Disinfectant.

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.

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

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
Thallium 7440-28-0	0.1 mg/m ³	TWA: 0.02 mg/m ³ inhalable particulate matter
		S*
Mercury	0.003 ppm	TWA: 0.025 mg/m ³
7439-97-6	0.025 mg/m ³	S*

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Cadmium	0.01 mg/m ³	TWA: 0.01 mg/m ³
7440-43-9		TWA: 0.002 mg/m ³ respirable
		particulate matter

Biological occupational exposure limits

Chemical name	Australia	ACGIH
Mercury	-	20 μg/g creatinine - urine (Mercury) -
7439-97-6		prior to shift
Cadmium	-	5 μg/g creatinine - urine (Cadmium) -
7440-43-9		not critical
		5 μg/L - blood (Cadmium) - not critical

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 protection Wear suitable protective clothing.

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

powder or cake, lyophilised **Appearance**

Colour red Odour Slight.

No information available **Odour threshold**

Property Values Remarks • Method

7.3-7.7 pН

Melting point / freezing point No data available None known Boiling point / boiling range No data available None known Flash point No data available None known No data available None known **Evaporation rate** Flammability (solid, gas) No data available None known Flammability Limit in Air None known

No data available Upper flammability or explosive

limits

Lower flammability or explosive No data available

limits

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

Water solubility Soluble in water

Solubility(ies) No data available None known Partition coefficient No data available None known

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None known None known

None known

None known

No data available

Autoignition temperature

Decomposition temperature

Kinematic viscosity No data available **Dynamic viscosity** No data available Not applicable **Explosive properties** Not applicable

Oxidising properties

Other information

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

SECTION 10: Stability and reactivity

Reactivity

No information available. Reactivity

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 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

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Cadmium	= 1140 mg/kg (Rat)	-	= 25 mg/m ³ (Rat) 30 min

See section 16 for terms and abbreviations

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

Skin corrosion/irritationBased 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

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

Chemical name	Australia
Cadmium - 7440-43-9	Carc. 1B

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.

SECTION 12: Ecological information

Ecotoxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

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 microorganisms	Crustacea
Mercury	-	LC50: =0.16mg/L (96h, Cyprinus carpio) LC50: =0.18mg/L (96h, Cyprinus carpio) LC50: =0.5mg/L (96h, Cyprinus carpio) LC50: =0.9mg/L (96h, Oryzias latipes)	-	EC50: =5.0µg/L (96h, water flea)
Cadmium	-	LC50: 0.0004 - 0.003mg/L (96h, Pimephales promelas) LC50: =0.002mg/L (96h, Cyprinus carpio) LC50: =0.003mg/L (96h,	-	EC50: =0.0244mg/L (48h, Daphnia magna)

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Oncorhynchus mykiss)	
LC50: =0.006mg/L (96h,	
Oncorhynchus mykiss)	
LC50: =0.016mg/L (96h,	
Oryzias latipes)	
LC50: =0.24mg/L (96h,	
Cyprinus carpio)	
LC50: =21.1mg/L (96h,	
Lepomis macrochirus)	
LC50: =4.26mg/L (96h,	
Cyprinus carpio)	

Persistence and degradability

No information available. Persistence and degradability

Bioaccumulative potential

Bioaccumulation No information available.

Mobility

Mobility in soil No information available. **Mobility** No information available.

Other adverse effects

No information available. Other adverse effects

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

<u>ADG</u> Not regulated

Not regulated IATA

Not regulated IMDG

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

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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	
Mercury - 7439-97-6	5 kg/yr Threshold category 1b	
	20 MW Threshold category 2b	
	60000 MWH Threshold category 2b	
	2000 tonne/yr Threshold category 2b	
Cadmium - 7440-43-9	10 tonne/yr Threshold category 1	
	2000 tonne/yr Threshold category 2b	
	60000 MWH Threshold category 2b	
	20 MW Threshold category 2b	

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

to using, handling, and storing substances subject to prohibition, authorisation or restriction are met.

Chemical name	Carcinogen	Restricted substance
Cadmium - 7440-43-9		For abrasive blasting at a
		concentration of >0.1%

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

Chemical name	Chemicals Subject to Prior Informed Consent (PIC)
Mercury - 7439-97-6	Rotterdam

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)

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

Disclaime

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