

SAFETY DATA SHEET

Legal Entity / Contact Address

Montreal, Quebec H4R 2E9

2403 Guenette

Canada

Bio-Rad Laboratories (Canada) Ltd.

Revision date 11-Jun-2021 **Revision Number** 1

1. Identification

Product identifier

Product Name Lyphochek Urine Metals Control, Level 2

Other means of identification

Catalog Number(s) 405

Recommended use of the chemical and restrictions on use

Recommended use In vitro diagnostic

Restrictions on use No information available

Details of the supplier of the safety data sheet

Corporate Headquarters Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive

Hercules, CA 94547

Technical Service

USA

Manufacturer Address Bio-Rad Laboratories Inc. 9500 Jeronimo Road

Irvine, California 92618

USA

1-800-361-1808

CSD_Techsupport@bio-rad.com

Emergency telephone number

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

2. Hazard(s) identification

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

Label elements

Danger

Hazard statements

Causes skin irritation Causes serious eye damage Suspected of causing genetic defects

May cause damage to organs through prolonged or repeated exposure

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Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

Skin

IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

Precautionary Statements - Disposal

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

Other information

May be harmful if swallowed Toxic to aquatic life with long lasting effects Toxic to aquatic life Contains components derived from human urine

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Trichloroacetic acid	76-03-9	1 - 5	-	
Phenol	108-95-2	1 - 5	-	

4. First-aid measures

Description of first aid measures

General advice

Immediate medical attention is required. Show this safety data sheet to the doctor in

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attendance. Contains components derived from human urine.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contactGet immediate medical advice/attention. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

Indication of any immediate medical attention and special treatment needed

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

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

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation. Evacuate personnel to safe areas.

Other information Refer to protective measures listed in Sections 7 and 8.

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.

7. Handling and storage

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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. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Ensure adequate ventilation. Take off contaminated

clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

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

Keep out of the reach of children. Store according to product and label instructions.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	Alberta	British Columbia	Ontario	Quebec
Trichloroacetic acid	TWA: 1 ppm	TWA: 0.5 ppm	TWA: 0.5 ppm	TWA: 1 ppm
76-03-9	TWA: 6.7 mg/m ³			TWA: 6.7 mg/m ³
Phenol	TWA: 5 ppm	TWA: 5 ppm	TWA: 5 ppm	TWA: 5 ppm
108-95-2	TWA: 19 mg/m ³	Skin	Skin	TWA: 19 mg/m ³
	Skin			Skin

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. Impervious gloves.

Skin and body protectionWear suitable protective clothing.

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

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Follow universal and standard precautions for

handling potentially infectious materials.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

Appearance powder or cake, lyophilized

Color yellow Odor Slight

Odor threshold No information available

Property Plane Values A.9-5.1 Remarks • Method

Melting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash pointNo data availableNone knownEvaporation rateNo data availableNone 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

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility
Soluble in water
No data available
No data available
No data available

Solubility in other solventsNo data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNone known

Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information Explosive properties

Explosive properties

Oxidizing properties

Softening point

Molecular weight

VOC Content (%)

Not applicable

Not applicable

Not applicable

Not applicable

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoidNone known based on information supplied.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

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. May cause irritation of

respiratory tract.

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

damage. May cause irreversible damage to eyes. (based on components).

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

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

gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Redness. Burning. May cause blindness. May cause redness and tearing of the eyes. **Symptoms**

Acute toxicity

Numerical measures of toxicity

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

ATEmix (oral) 2,453.90 mg/kg ATEmix (dermal) 8,669.70 mg/kg ATEmix (inhalation-dust/mist) 11.90 mg/l

Product Information

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloroacetic acid	= 3320 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
76-03-9			
Phenol	= 340 mg/kg (Rat)	= 630 mg/kg (Rabbit)	= 316 mg/m ³ (Rat) 4 h
108-95-2	= 317 mg/kg (Rat)		

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

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.		
Product Information			
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.		
Product Information			

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

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for ingredients. Suspected of causing genetic defects.

Product Information

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	ACGIH	IARC	NTP	OSHA
Trichloroacetic acid 76-03-9	A3	Group 2B	-	X
Phenol	-	Group 3	-	-
108-95-2				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

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

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

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Product Information

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Product Information

Target organ effects Liver, Kidney, Respiratory system, Eyes, Skin, Gastrointestinal tract (GI).

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

12. Ecological information

Ecotoxicity

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Product Information				
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Phenol	EC50: 0.0188 -	LC50: 11.9 - 25.3mg/L	-	EC50: 10.2 - 15.5mg/L
108-95-2	0.1044mg/L (96h,	(96h, Lepomis		(48h, Daphnia magna)
	Pseudokirchneriella	macrochirus)		EC50: 4.24 - 10.7mg/L
	subcapitata)	LC50: 11.9 - 50.5mg/L		(48h, Daphnia magna)
	EC50: 187 - 279mg/L	(96h, Pimephales		
	(72h, Desmodesmus	promelas)		
	subspicatus)	LC50: 20.5 - 25.6mg/L		
	EC50: =46.42mg/L (96h,	(96h, Pimephales		
	Pseudokirchneriella	promelas)		
	subcapitata)	LC50: 23.4 - 36.6mg/L		
		(96h, Oryzias latipes)		
		LC50: 33.9 - 43.3mg/L		
		(96h, Oryzias latipes)		
		LC50: 34.09 - 47.64mg/L		
		(96h, Poecilia reticulata)		
		LC50: 4.23 - 7.49mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 5.0 - 12.0mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 5.449 - 6.789mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 7.5 - 14mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =0.00175mg/L		
		(96h, Cyprinus carpio)		
		LC50: =11.5mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =13.5mg/L (96h,		
		Lepomis macrochirus) LC50: =27.8mg/L (96h,		
		Brachydanio rerio)		
		LC50: =31mg/L (96h,		
		Poecilia reticulata)		
		LC50: =32mg/L (96h,		
		Pimephales promelas)		

Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Phenol	1.5
108-95-2	

Other adverse effects

No information available.

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

TDG Not regulated

DOT Not regulated

MEX Not regulated

IATA Not regulated

UN number or ID number 1759
Packing group III

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

The Rotterdam Convention

International Inventories

Contact supplier for inventory compliance status

16. Other information

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and chemical properties -

Health hazards 3 * Flammability 0 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend *= Chronic Health Hazard

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

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

Revision date 11-Jun-2021

Revision Note Significant changes throughout SDS. Review all sections.

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