

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Revision date 11-Jun-2021 Revision Number 1

1. IDENTIFICATION

Product identifier

Product Name Lyphochek Urine Metals Control, Level 2

Other means of identification

Catalogue Number(s) 405

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use In vitro diagnostic

Supplier's details

Corporate HeadquartersManufacturerLegal Entity / Contact AddressBio-Rad Laboratories Inc.Bio-Rad Laboratories Inc.Bio-Rad Laboratories Pvt. Ltd.

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Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC India: 000-800-100-7141

CHEMTREC South Africa: 0-800-983-611

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

| Acute toxicity - Oral | Category 5 |
|--|------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Germ cell mutagenicity | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Acute aquatic toxicity | Category 2 |
| Chronic aquatic toxicity | Category 2 |

GHS Label elements, including precautionary statements









Signal word

Danger

Hazard statements

May be harmful if swallowed Causes skin irritation Causes serious eye damage Suspected of causing genetic defects May cause respiratory irritation Toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Avoid release to the environment

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 CENTRE or doctor

Skin

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

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Spill

Collect spillage

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

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

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

| Chemical name | CAS No | Weight-% |
|----------------------|----------|----------|
| Trichloroacetic acid | 76-03-9 | 3.589 |
| 76-03-9 | | |
| Phenol | 108-95-2 | 1.196 |
| 108-95-2 | | |

4. FIRST AID MEASURES

Description of necessary first aid measures

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

attendance.

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

concerned: Get medical advice/attention.

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

attention if irritation develops and persists.

Eye contact Get 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.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

For emergency responders

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 immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

No information available.

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. 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.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

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.

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

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

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. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient

ventilation, wear suitable respiratory equipment.

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.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

| Chemical name | ACGIH TLV | OSHA P | EL | | Ontario | European Union |
|---------------------------------|--|---|------------|--------------|--------------------|--|
| Trichloroacetic acid 76-03-9 | TWA: 0.5 ppm | (vacated) TWA (vacated) TWA | | TWA | A: 0.5 ppm | - |
| Phenol 108-95-2 | TWA: 5 ppm S* | TWA: 5 ppm TWA: 5 ppm | | TW | 'A: 5 ppm Skin | TWA: 2 ppm TWA: 8 mg/m³ STEL: 4 ppm STEL: 16 mg/m³ * |
| Chemical name | China | Japan Society of Occupational Health | Ко | rea | Australia | Taiwan |
| Trichloroacetic acid 76-03-9 | - | - | TWA: | 1 ppm | 1 ppm 6.7 mg/m³ | TWA: 1 ppm TWA: 6.7 mg/m³ STEL: 2 ppm STEL: 13.4 mg/m³ |
| Phenol 108-95-2 | TWA: 10 mg/m³ STEL: 20 mg/m³ Skin* | TWA: 5 ppm TWA: 19 mg/m³ S* | TWA: Sk | 5 ppm in* | 1 ppm 4 mg/m³ | TWA: 5 ppm TWA: 19 mg/m³ STEL: 28.5 mg/m³ STEL: 10 ppm 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).

Skin and body protection Wear suitable protective clothing.

Hand protection Wear suitable gloves. Impervious 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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid

Appearance powder or cake, lyophilised Odour Slight

Colour yellow **Odour threshold** No information available

Property Values Remarks • Method

pH

Melting point / freezing point

Boiling point / boiling range

No information available
No information available

Boiling point / boiling rangeNo information availableFlash pointNo information availableEvaporation rateNo information availableFlammability (solid, gas)No information available

Upper/lower flammability or explosive limits
Upper flammability or explosive Not applicable

limits

Lower flammability or explosive Not applicable

limits

Vapour pressureNo information availableVapour densityNo information availableRelative densityNo information available

Solubility(ies)

Water solubility Soluble in water

Solubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information available

Viscosity

Kinematic viscosity

No information available

Dynamic viscosity

Other information

Oxidising properties Not applicable

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 materials Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on the 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 Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

67.999 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

67.999 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

72.784 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

72.784 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

71.588 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

Component Information

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

Delayed and immediate effects and also chronic effects from short and long term exposure

Skin corrosion/irritationClassification based on data available for ingredients. Irritating to skin.

Serious eye damage/irritation Classification based on data available for ingredients. Causes burns. Risk of serious

damage to eyes.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for

ingredients. Suspected of causing genetic defects.

Carcinogenicity No information available.

| Chemical name | IARC |
|----------------------|----------|
| Trichloroacetic acid | Group 2B |
| Phenol | Group 3 |

Reproductive toxicity No information available.

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposureNo information available.

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

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Toxicity

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

Ecotoxicity Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|---------------|----------------------------------|-----------------------------------|-----------------------------|
| Phenol | EC50: 0.0188 - 0.1044mg/L (96h, | LC50: 11.9 - 25.3mg/L (96h, | EC50: 10.2 - 15.5mg/L (48h, |
| | Pseudokirchneriella subcapitata) | Lepomis macrochirus) | Daphnia magna) |
| | EC50: 187 - 279mg/L (72h, | LC50: 11.9 - 50.5mg/L (96h, | EC50: 4.24 - 10.7mg/L (48h, |
| | Desmodesmus subspicatus) | Pimephales promelas) | Daphnia magna) |
| | EC50: =46.42mg/L (96h, | LC50: 20.5 - 25.6mg/L (96h, | |
| | Pseudokirchneriella subcapitata) | Pimephales promelas) | |
| | | 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 | |

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| | reticulata) | |
|--|--------------------------------|--|
| | LC50: =32mg/L (96h, Pimephales | |
| | promelas) | |

Persistence and degradability

No information available.

Bioaccumulative potential

There is no data for this product.

Mobility

Mobility in soil No information available.

No information available. **Mobility**

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Phenol | 1.5 |

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Do not reuse empty containers. Contaminated packaging

14. TRANSPORT INFORMATION

IMDG Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA Not regulated

UN number or ID number

Packing group

1759

Ш

RID Not regulated

ADR Not regulated

ADN Not regulated

Special provisions from the regulations relative to the specified mode of transport are noted Special precautions for user

by numeric code. Refer to the regulations for the full text of special provisions.

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

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 11-Jun-2021

Revision Note*** Indicates this information has changed since the previous revision.

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

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