

## SAFETY DATA SHEET

**Issue date** 2023-10-18

Revision date 2024-02-09 Version # 1.2 Supersedes date 2024-02-08

# **Section 1: Product and Company Identification**

1.1 Product name Lactate Reagent

Substance/mixture mixture CAS # mixture

**Kit number** C452-0A, C452-01, C454-01, V452-12

1.2 Recommended product use

Mixture's intended use Diagnostic reagent for IN VITRO quantitative measurement of lactate (lactic acid) in serum

and plasma only.

**Product restrictions** Not for use in unprofessional settings.

1.3 Details of the supplier of the safety data sheet

Manufacturer information

Corporate Headquarters Catachem, Inc.

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United States of America www.catacheminc.com

Telephone Phone: +1 (203) 262-0330
Email catachem@catacheminc.com

**Distributor information** 

Distributor Headquarters Nuuchem Diagnostics Ltd.

18 Killuney Rd. Armagh, N. Ireland

United Kingdom

**Telephone** +44 7778 925522

Email Trevor.templeton@nuuchem.com

1.4 Emergency Telephone

**Emergency Phone #** +1 (203) 232-1979

### **Section 2: Hazards Identification**

### 2.1 Substance or mixture classification

Physical state Liquid

**Appearance** Clear to pink solution

Emergency overview May cause allergic reactions with skin, do not ingest product in any way. Wear gloves while

handling product. Do not allow in drains and sewers.

2.2 Label Elements

Signal word Warning

**Hazard Pictogram** 

Hazardous substances

4-Aminoantipyrine, Peroxidase, Lactate Oxidase, Tergitol NP-40.

OSHA regulatory status This product is hazardous according to OSHA 29CFR 1910.1200.

### 2.3 Potential health effects

Routes of exposure Skin contact. Eye contact.

**Eyes** May cause eye irritation or serious eye damage.

**Skin** May cause skin irritation or skin burns.

**In high concentrations**, vapors may be irritating to the upper respiratory tract leading to

chemical pneumonitis and pulmonary edema.

**Ingestion** If swallowed, may cause discomfort and lead to gastrointestinal tract burns.

**Target organs** Eyes, lungs and skin.

**Chronic effects** Repeated skin contact may cause dermatitis.

**Signs and symptoms** Direct contact with skin and eyes may cause irritation.

## 2.4 Potential environmental effects

The product components are not classified as environmentally hazardous. However, this does not eliminate the possibility that large or frequent spills can have a harmful or

damaging impact on the environment.

# Section 3: Composition / Information on Ingredients

## Components:

Chemical name	CAS-No.	Classification	Concentration (% w/w)
4-Aminoantipyrine	83-07-8	Acute toxicity, Oral	<0.003%
		(Category 4), H302	
Peroxidase	9003-99-0	Respiratory sensitization	<2.0%
		(Category 1), H334 Skin	
		sensitization (Category 1),	
		H317 Short-term (acute)	
		aquatic hazard (Category 3),	
		H402	
Lactate Oxidase	9028-72-2	Respiratory sensitization	<0.20%
		(Category 1), H334	
Tergitol NP-40	9036-19-5	Acute toxicity, Oral	<0.01%
		(Category 4), H302	
		Acute toxicity, Inhalation	
		(Category 4), H332	
		Serious eye damage	
		(Category 1), H318	
		Short-term (acute) aquatic	
		hazard (Category 2), H401	
		Long-term (chronic) aquatic	
		hazard (Category 2), H411	

## **Section 4: First Aid Measures**

## 4.1 Description of First aid measures

Eye contact In case of eye contact, immediately flush eyes with fresh water for at least 15 minutes while

holding eyelids open. Remove contact lenses immediately if worn by the affected person.

Pursue medical treatment if irritation persists.

Skin contact In case of skin contact, remove any or all of contaminated clothing, while rinsing the

affected skin with large amounts of water. Pursue medical attention if irritation develops

and persists.

Inhalation In case of inhalation, move the affected person to fresh air. Call a physician if symptoms

develop or persist.

Ingestion Do NOT induce vomiting. In case of ingestion, make the affected person either drink some

water or rinse out their mouth. If any other symptoms persist, contact a medical

professional or a poison control center.

Notes to physician Provide general supportive measures and treat symptomatically.

**General advice** If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

**Eye Contact** Causes serious eye damage

Skin contact Causes skin irritation

Inhalation Causes corrosion of the breathing system

Ingestion Causes corrosion of the digestion system

## **Section 5: Fire Fighting Measures**

Flammable properties This product is not flammable.

5.2 Extinguishing media

Suitable extinguishing media

Extinguish with water spray, carbon dioxide (CO2), dry chemical or material appropriate for

the surrounding fire.

Unsuitable extinguishing media

No limitations are given.

5.3 Protection of firefighters

Specific hazards arising from the chemical

Carbon oxides Sulfur oxides

Nitrogen oxides (NOx)

Sodium oxides

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Avoid contaminating surface water with fire extinguishing water.

**Hazardous combustion Products** 

Hazardous combustion gases or vapors may develop in the event of fire.

## **Section 6: Accidental Release Measures**

6.1 Personal precautions Keep unnecessary personnel away. Wear appropriate protective equipment and clothing

during clean-up. Do not touch damaged containers or spilled material unless wearing

appropriate protective clothing.

**6.2** Environmental precautions Avoid contamination to enter drains, sewers or watercourses.

Methods for containment and cleaning up

Absorb spillage with non-combustible, absorbent material such as sand, diatomaceous earth, vermiculite or other inert material. Dispose of waste in accordance with all applicable

federal, state, local and provincial environmental regulations, per Section 13.

6.4 Other information Clean up in accordance with all applicable regulations.

## Section 7: Handling and Storage

7.1 Safe Handling Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable

respiratory equipment. Handle and open container with care.

Wash exposed skin thoroughly after handling. Hygiene measures

7.2 Storage Store at 2-8°C (35-46°F). Store in a closed container away from incompatible materials.

### Section 8: Exposure Controls / Personal Protection

8.1 Occupational exposure limits

No exposure limits noted for ingredient(s).

**Exposure guidelines** Follow standard monitoring procedures.

**Engineering controls** Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk

of inhalation of vapors. Provide easy access to water supply and eye wash facilities.

8.2 Personal protective equipment

Eye / face protection Wear appropriate safety glasses, goggles or face shields.

Skin protection Wear lab coat or other protective garments. Wear protective gloves. Remove any

contaminated clothing promptly.

Respiratory protection Under normal conditions, respirator is not required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Other information Do NOT eat, drink or smoke during use.

# **Section 9: Physical and Chemical Properties**

Information on basic physical and chemical properties

**Appearance** Liquid Physical state Liquid **Form** Liquid Color Clear to pink Odor Odorless

Odor threshold No data available

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pН 10-12 @ (25°C) Vapor pressure No data available Vapor density No data available **Boiling point** No data available Viscosity (mm<sup>2</sup>/s) No data available Melting/Freezing point No data available

Solubility (water) Soluble Specific gravity 1-1.1

No data available Flash point Flammability limits in air, upper, % by volume

No data available

Flammability limits in air, lower, % by volume

No data available

**Decomposition temperature** No data available **Auto-ignition temperature** No data available **Evaporation rate** No data available

# **Section 10: Stability and Reactivity Information**

No data available 10.1 Reactivity

Material is stable under normal conditions. 10.2 Chemical stability

10.3 Possibility of hazardous Reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid No data available 10.5 Incompatible materials No data available

10.6 Hazardous decomposition Products

In the event of fire, refer to Section 5.3

# **Section 11: Toxicological Information**

### 11.1 Information on toxicological effects

Sensitization Not classified.

**Acute effects** May cause discomfort if swallowed.

Local effects Ingestion may cause irritation and nausea.

**Chronic effects** No data available.

Carcinogenicity Not classified to carcinogenicity to humans.

**Epidemiology** No epidemiological data is available for this product.

Not classified. Mutagenicity Reproductive effects Not classified.

Symptoms and target organs

Direct contact with skin and eyes may cause irritation.

Additional information No other specific acute or chronic health impact noted.

## **Section 12: Ecological Information**

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12.1 Toxicity

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude

the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

12.2 Persistence and degradability

No data is available on the degradability of this product.

12.3 Bioaccumulation/Accumulation

No data available.

12.4 Mobility in environmental media

The product is completely soluble in water.

## **Section 13: Disposal Considerations**

13.1 Disposal methods

**Disposal instructions**Contaminated instruments and surfaces should be disinfected in accordance with

your employer's chemical-specific and universal/standard precautions.

Waste from residues / unused products

Dispose in accordance with all applicable local and national regulations. Avoid releasing

unused products into drainage systems and/or into the environment.

disposal.

### **Section 14: Transport Information**

**DOT** Not regulated as a hazardous material by DOT.

IATA Not regulated as dangerous goods.IMDG Not regulated as dangerous goods.TDG Not regulated as dangerous goods.

## **Section 15: Regulatory Information**

**US federal regulations** This product is hazardous according to OSHA 29CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity (lb.) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No

Pressure Hazard - No

Fire Hazard - No

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Reactivity Hazard - No

Section 302 extremely No hazardous substance (40 CFR 355, Appendix A)
Section 311/312
(40 CFR370) No

**Drug Enforcement** 

Administration (DEA) (21 CFR

**1308.11-15)** Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the

MSDS contains all the information required by the CPR.

WHMIS status Non-controlled

**Inventory status** 

### Country(s) or region Inventory name On inventory (yes/no)\*

Australia	Australian Inventory of Chemical Substances (AICS)	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	
United States		
& Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance Not listed.

**US. Massachusetts RTK - Substance List** 

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act** 

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

Mexico regulations

This safety data sheet was prepared in accordance with the Official Mexican Standard

(NOM-018-STPS-2000).

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### **Section 16: Other Information**

**NFPA** ratings

**Recommended restrictions** Use in accordance with supplier's recommendations.

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS**® ratings Health: 0

Flammability: 0 Physical hazard: 0

Health: 0

Flammability: 0 Instability: 0

**Disclaimer** The above information is believed to be correct, but does not purport to be all inclusive and should be used only as a guide. Catachem Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.