

## SAFETY DATA SHEET

## 1. Product and Company Identification

Material name Glutamate dehydrogenase (GLDH)

Version #

**Issue date** 06/01/12 **Revision date** - 04/10/17

Supersedes date -

CAS # Mixture

Kit number C550 series

Product use For the IN VITRO quantitative measurement of glutamate dehydrogenase in serum and

plasma.

Manufacturer information

Corporate Headquarters Catachem

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**Emergency Telephone** 

**Numbers** +1203-232-1979

#### 2. Hazards Identification

Physical state Liquid.

Appearance Clear colorless liquid

**Emergency overview** Health injuries are not known or expected under normal use.

OSHA regulatory status This product is not hazardous according to OSHA 29CFR 1910.1200.

Potential health effects

Routes of exposureSkin contact. Eye contact.EyesMay cause eye irritation.SkinMay cause skin irritation.

**Inhalation** In high concentrations, vapors may be irritating to the respiratory system.

**Ingestion** May cause discomfort if swallowed.

Target organs Eyes.

Chronic effects No data available.

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

Potential environmental effects The product components are 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.

## 3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

### 4. First Aid Measures

First aid procedures

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

holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation

persists.

**Skin contact** For skin contact flush with large amounts of water while removing contaminated clothing.

Get medical attention if irritation develops and persists.

InhalationMove to fresh air. Call a physician if symptoms develop or persist.IngestionIf material is ingested, immediately contact a poison control center.Notes to physicianProvide general supportive measures and treat symptomatically.

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

# 5. Fire Fighting Measures

**Flammable properties** This product is not flammable.

**Extinguishing media** 

Suitable extinguishing

media Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the

surrounding fire.

Unsuitable extinguishing

media None known.

**Protection of firefighters** 

Specific hazards arising

from the chemical None known.

Protective equipment and

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

Fire fighting

materials.

**Hazardous combustion** 

Products None known.

#### 6. Accidental Release Measures

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.

**Environmental precautions** Do not allow to enter drains, sewers or watercourses.

**Methods for containment** Absorb spillage with non-combustible, absorbent material.

Methods for cleaning up Absorb spill with vermiculite or other inert material. Dispose of waste in accordance with all

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

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

### 7. Handling and Storage

Handling Avoid contact with skin and eyes. Wash thoroughly after handling. In case of insufficient

ventilation, wear suitable respiratory equipment. Handle and open container with care.

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

### 8. Exposure Controls / Personal Protection

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.

Personal protective equipment

**Eye / face protection** Wear approved safety glasses or goggles.

**Skin protection** Wear lab coat or other protective garments. Remove contaminated clothing promptly.

**Respiratory protection** Under normal conditions, respirator is not normally required.

General hygiene

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**considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

Colorless **Appearance** Physical state Liquid. **Form** Liquid. Color Colorless Odor Odorless. **Odor threshold** Not available. pН 6-8 @ (25°C) Vapor pressure Not available. Not available. Vapor density **Boiling point** Not available. Melting point/Freezing point Not applicable. Solubility (water) Soluble.

Specific gravity 1-1.1

Flash point Not available.

Flammability limits in air,

**upper**, % **by volume** Not available.

Flammability limits in air,

lower, % by volumeNot available.Auto-ignition temperatureNot available.Evaporation rateNot available.

# 10. Chemical Stability & Reactivity Information

**Chemical stability** Material is stable under normal conditions.

Conditions to avoid No data available.

Incompatible materials No data available.

Hazardous decomposition

**Products** None known.

Possibility of hazardous

**Reactions** Hazardous polymerization does not occur.

# 11. Toxicological Information

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 classifiable as to carcinogenicity to humans.

Epidemiology

No epidemiological data is available for this product.

MutagenicityNot classified.Reproductive effectsNot classified.

Symptoms and target organs Direct contact with skin and eyes may cause irritation.

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

### 12. Ecological Information

**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

No data is available on the degradability of this product.

disposal.

Persistence and degradability

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Bioaccumulation /

**Accumulation** 

Not available.

Mobility in environmental

media The product is completely soluble in water.

### 13. Disposal Considerations

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 regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 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.

## 15. Regulatory Information

**US federal regulations**This product is not hazardous according to OSHA 29CFR 1910.1200. This mixture is a

component of an in vitro diagnostic device regulated by the U.S. Food and Drug

Administration.

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 Fire Hazard - No Pressure Hazard - No 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)	Yes
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).

16. Other Information

**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

NFPA ratings 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.