

SAFETY DATA SHEET

Issue date	2023-10-18	
Revision date	2024-02-09	Version # 1.2

Sec	tion 1: Product and Co	ompany Identification
1.1	Product name	Lactate Dehydrogenase (LDH) R2 Reagent
	Substance/mixture	mixture
	CAS #	mixture
	Kit number	C144-0A, C144-0B, C144-02, V144-0C, V144-06
1.2	Recommended product u	se
	Mixture's intended use	Diagnostic reagent for IN VITRO quantitative measurement of lactate dehydrogenase in
		serum and plasma only.
	Product restrictions	Not for use in unprofessional settings.
1.3	1.3 Details of the supplier of the safety data sheet	
	Manufacturer information	
	Corporate Headquarters	Catachem, Inc.
		353 Christian Street Oxford, CT 06478
		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/colorless solution
Emergency overview	Do not consume or ingest product in any way. Wear gloves when handling product. Do not
	allow to enter drains or sewers. Wash hands thoroughly after handling product. If product is
	ingested in any way, contact emergency services immediately.

2.2 Label Elements Signal word Hazard Pictogram



Hazardous substances Sodium Azide. **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. Inhalation In high concentrations, vapors may be irritating to the upper respiratory tract leading to chemical pneumonitis and pulmonary edema. If swallowed, may cause discomfort and lead to gastrointestinal tract burns. Ingestion **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.

Potential environmental effects 2.4

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)
Sodium Azide	26628-22-8	Acute toxicity, Oral	<1.5%
		(Category 2), H300 Acute	
		toxicity, Inhalation (Category	
		2), H330 Acute toxicity,	
		Dermal (Category 1), H310	
		Specific target organ toxicity	
		- repeated exposure, Oral	
		(Category 2), Brain, H373	
		Short-term (acute) aquatic	
		hazard (Category 1), H400	
		Long-term (chronic) aquatic	
		hazard (Category 1), H410	

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.

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	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	.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

5.1 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.

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6.3 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.
	Hygiene measures	Wash exposed skin thoroughly after handling.
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 equip	ment
	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 consider	rations
		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

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Physical state	Liquid
Form	Liquid
Color	Clear/colorless
Odor	Odorless
Odor threshold	No data available
рН	10-12 @ (25°C)
Vapor pressure	No data available
Vapor density	No data available
Boiling point	No data available
Viscosity (mm²/s)	No data available
Melting/Freezing point	No data available

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Solubility (water)	Soluble
Specific gravity	1-1.1
Flash point	No data available
Flammability limits in air, u	ipper, % by volume
	No data available
Flammability limits in air, le	ower, % by volume
	No data available
Decomposition temperatur	e No data available
Auto-ignition temperature	No data available
Evaporation rate	No data available

Section 10: Stability and Reactivity Information

10.1 Reactivity	No data available
10.2 Chemical stability	Material is stable under normal conditions.
10.3 Possibility of hazardous F	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	n Products
	In the event of fire, refer to Section 5.3

Section 11: Toxicological Information

11.1 Information on toxicological effects

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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.			
Mutagenicity	Not classified.			
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

12.1 Toxicity				
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude			
	the possibility that larg	e or frequent sp	ills can have a l	harmful or damaging effect on the
	environment.			
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handli			vent of unprofessional handling or
	disposal.			
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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

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	Disposal instructions	Contaminated instruments and surfaces should be disinfected in accordance with			
		your employer's chemical-specific and universal/standard precautions.			
	Waste from residues / unus	nused products			
		Dispose in accordance with all applicable local and national regulations. Avoid releasing			
		unused products into drainage systems and/or into the environment.			
Contaminated packaging		Empty containers should be taken to an approved waste handling site for recycling or			
		disposal.			

Section 14: Transport Information

DOT	Not regulated as a hazardous material by DOT.
ΙΑΤΑ	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** 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 353 Christian Street, Suite 2 • Oxford, Connecticut • USA 06478 •Phone: (203) 262-0330 •Fax: (203) 262-9836 •catachem@catacheminc.com Revision Number Change Date Operator 2024.02.09 EB 1.2 Page **6** of **8**

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United States				
& Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes				
*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.

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Mexico regulations
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This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

Section 16: Other Information

n accordance with supplier's recommendations.
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h: 0
mability: 0

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NFPA ratings

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.