

1. Product and Company Identification

1.1 Product name Leukocyte Esterase R1 + R2 Reagent

Substance/mixture Mixture
CAS # Mixture

Kit number MD-101101

1.2 Recommended product use

Mixture's intended use Diagnostic reagent for IN VITRO quantitative measurement of leukocyte esterase in urine.

Product restrictions None known

1.3 Details of the supplier of the safety data sheet

Manufacturer information

Corporate Headquarters Diamond Diagnostics Inc.

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States of America

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Telephone +1 (508) 429-0450

Email support@diamonddiagnostics.com

Distributor information

Distributor Headquarters Mission Diagnostics LLC

1 Burton Dr., Meridith, NH 03246

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2. Hazards Identification

GHS- Classification

Classification Acute Toxicity, Eye irritation, skin irritation, aquatic Chronic, Specific target organ toxicity (Single

exposure)



2.1 Substance or mixture classification

Physical state Liquid
Appearance Clear/yellow

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

2.2 Label Elements

Signal word Warning

Hazardous substances Sodium Azide, ProClin 300, Ethanol

OSHA regulatory status This product is not 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

Harmful to aquatic life with long-lasting effects

Hazard Statements

H302 Harmful is swallowed

H315 Causes skin irritation and eye damage

H319 Causes serious eye irritation
H335 May cause respiratory irritation

H412 Harmful to aquatic life with long-lasting effects

Precautionary Statements

P261 Avoid breathing mist/vapors/spray
P264 Wash skin thoroughly after handling

P272 Contaminated work clothing should not be allowed out of the workplace
P280 Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 IF ON SKIN: Wash with plenty of water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing

P333+P313 If Skin irritation or rash occurs: Get medical advice/attention
P337+P313 If eye irritation persists: Get medical advice/attention
P312 Call a POISON CENTER or doctor if you feel unwell

P501 Dispose of contents/container in accordance with local regulations

3. Composition/Information on ingredients

Components:

Chemical name	CAS-No.	Classification	Concentration (% w/w)
ProClin 300	26172-55-4 / 2682-20-4	Acute toxicity, Oral (Category 2), H300 Acute	0.05-0.1%
		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	



Chemical name	CAS-No.	Classification	Concentration (% w/w)
Ethanol	64-17-5	Acute toxicity, Oral (Category 2), H300 Acute	3-6%
		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	
Sodium Azide	26628-22-8	Acute toxicity, Oral (Category 2), H300 Acute	<1.0%
		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	

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.

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

InhalationCauses corrosion of the breathing systemIngestionCauses corrosion of the digestion system



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)

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

No data

6. Accidental Release Measures

6.1 Personal precautions Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. Use personal

protective equipment.

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

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.

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 Storage Store at 2-10°C in amber bottles. Protect from light and contamination. Reclose cap tightly after

each use, reduce exposure to air when not in use.

7.3 Specific use See section 1 – Recommended Use



8. Exposure Controls / Personnel

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ProClin 300	Not listed	Not listed	Not listed
26172-55-4 / 2682-20-4			
Ethanol	1,900 mh/m3	1,900 mh/m3	1,900 mh/m3
64-17-5			
Sodium Azide	0.29 mg/m3	Not listed	Not listed
26628-22-8	_		

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.

Environment Exposure Prevent further leakage or spillage if safe to do so.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

AppearanceLiquidPhysical stateLiquidFormLiquid

Color Clear/colorless

Odor Odorless

Odor threshold No data available

pH R1: 8.0-9.0

R2: 5.0-6.0

Vapor pressureNo data availableVapor densityNo data availableBoiling pointNo data availableViscosity (mm²/s)No data availableMelting/Freezing pointNo data available

Solubility (water) Soluble

Specific gravity No data Available



Flash point >23°C (ethanol)

Flammability limits in air, upper, % by volume

No data available

Flammability limits in air, lower, % by volume

No data available

No data available

Decomposition temperatureNo data availableAuto-ignition temperatureNo data availableEvaporation rateNo data availableRelative DensityNo data availablePartition coefficient:No data available

Oxidizing properties No data available

10. Stability and Reactivity

Explosive properties

10.1 Reactivity No data available

10.2 Chemical stability Material is stable under normal conditions.

10.3 Possibility of hazardous Reactions

Hazardous polymerization does not occur.

10.4 Incompatible materials Strong oxidizing agents, acids, heavy metals.

10.5 Hazardous polymerization Will not occur

10.6 Conditions to avoid Exposure to heat and light

10.7 Hazardous decomposition Products

Cabon monoxide, carbon dioxide, and nitrogen oxides. In the event of fire, refer to Section 5.3

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 effectsNo data availableTarget Organ EffectsNo data available

Carcinogenicity Not classified based on available information.

Epidemiology No epidemiological data is available for this product.

MutagenicityNot classifiedReproductive effectsNot 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.



12. Ecological Information

12.1 Toxicity

Ecotoxicity The product contains components harmful to aquatic life. Avoid release into 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

Not expected to bioaccumulate

12.4 Mobility in environmental media

The product is completely soluble in water.

13. Disposal Considerations

13.1 Disposal methods

Disposal instructionsContaminated 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.

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.

DOR Not regulated as dangerous goods.

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)

Sodium Azide is subject to TSCA Section 12(b) export notification requirements.

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

Not regulated



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

Sodium Azide is listed (RQ 1000lbs)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 (Extremely Hazardous Substances):

Sodium azide TPQ = 500 lbs

SARA 313 (Toxic Chemicals Reporting):

Sodium azide is listed.

Hazard categories Immediate Hazard – Yes – due to acute oral

toxicity (H302)

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)

Not controlled

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

US. Massachusetts RTK - Substance List

Sodium azide is listed

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

Sodium azide is listed

US. Pennsylvania RTK - Hazardous Substances

Sodium azide is listed

16. Other Information

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in text.