

1. Product and Company Identification

1.1 Product name Nitrite Reagent (R1 + R2)

Substance/mixture Mixture CAS # Mixture

Kit number MD-101102

1.2 Recommended product use

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

Product restrictions None known

1.3 Details of the supplier of the safety data sheet

Manufacturer information

Corporate Headquarters Diamond Diagnostics Inc.

333 Fiske St., Holliston, MA 01746 United

States of America

www.diamonddiagnostics.com

Telephone +1 (508) 429-0450

Email support@diamonddiagnostics.com

Distributor information

Distributor Headquarters Mission Diagnostics LLC

1 Burton Dr., Meridith, NH 03246

United States of America

Telephone +1 (508) 429-0450

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1.4 Emergency Telephone

Emergency Phone # +1 (508) 429-0450

2. Hazards Identification

GHS- Classification

Classification Skin Irritant, Eye Irritant



2.1 Substance or mixture classification

Physical state Liquid

Appearance Clear, yellow/brownish

Emergency overview Irritating to eyes, respiratory system, and skin

2.2 Label Elements

Signal word None

Hazardous substances No data available

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, Inhalation.

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.

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.

Hazard Statements

H315 Causes skin irritation and eye damage

H318 Causes serious eye damage H335 May cause respiratory irritation

Precautionary Statements

P234 Keep in original container

P264 Wash skin thoroughly after handling P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse P390 Absorb spillage to prevent material damage

P391 Collect spillage

P501 Dispose of contents/container to an approved waste disposal plant

3. Composition/Information on ingredients

Components:

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Phosphoric Acid	7664-38-2	H314 (Causes severe skin burns and eye damage) and classification as Eye Damage Category 1, Skin Corrosion Category 1B, and Metal Corrosive Category 1.	2.300000
Indicator	N/A	N/A	<1.000000
Surfactant	N/A	N/A	0.000100
Water	7732-18-5	Not a hazardous substance or material	N/A



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. Keep respiratory tract clear. Do not give milk or alcoholic beverages. 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

Emits toxic fumes under fire conditions

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.

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. Ventilate area after

material pickup is complete.

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 Store at 2-8°C. Store in a closed container away from incompatible materials.

7.3 Specific use See section 1 – Recommended Use

8. Exposure Controls / Personnel

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric Acid 7664-38-2	1mg/m3	1mg/m3	1000mg/m3
Indicator N/A	Not listed	Not listed	Not listed
Surfactant N/A	Not listed	Not listed	Not listed
Water 7732-18-5	Not listed	Not listed	Not Listed

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 NIOSH / MSHA approved respirator.

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. Do not let product enter drains.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Liquid
Physical state Liquid
Form Liquid

Color Clear, yellowish/brownish



Odor Odorless

Odor threshold No data available

pH 1.15

Vapor pressureNo data availableVapor densityNo data availableBoiling pointApprox. 212

Viscosity (mm²/s) No data available

Melting/Freezing point Melting point Apex 320

Solubility (water) Soluble
Specific gravity 1.010

Flash point Does not flash Flammability limits in air, upper, % by volume

No data available

Flammability limits in air, lower, % by volume

No data available

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

(n-octanol/water)

Explosive properties No data available

Oxidizing properties No data available

10. Stability and Reactivity

10.1 Reactivity Oxidizers

10.2 Chemical stability Material is stable under normal conditions.

10.3 Possibility of hazardous Reactions

Stable under normal conditions. No hazard to be specially mentioned.

10.4 Incompatible materials No data available10.5 Hazardous polymerization Will not occur

10.6 Conditions to avoid Exposure to heat and light

10.7 Hazardous decomposition Products

No data available

11. Toxicological Information

11.1 Information on toxicological effects

Sensitization Not classified

Acute effects Not classified

Local effects Ingestion may cause irritation and nausea.

Chronic effects No data available



Target Organ Effects No data available

Carcinogenicity Not classified

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. Material is irritating to mucous membranes and

upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.

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

12. Ecological Information

12.1 Toxicity

Ecotoxicity No data available
Environmental effects No data available

12.2 Persistence and degradability

No data is available

12.3 Bioaccumulation/Accumulation

No data available

12.4 Mobility in environmental media

No data available

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.

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)

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

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

Inventory of Existing Chemical Substances in China (IECSC) China Yes European Inventory of Existing Commercial Chemical Substances (EINECS) Europe Yes European List of Notified Chemical Substances (ELINCS) Europe No Inventory of Existing and New Chemical Substances (ENCS) Japan Yes Korea Existing Chemicals List (ECL) Yes **New Zealand Inventory** New Zealand Yes



Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS)

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.

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 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.