

## 1. Product and Company Identification

1.1 Product name Urobilinogen Reagent (R1+R2)

Substance/mixture Mixture
CAS # Mixture
Kit number MD-101103

1.2 Recommended product use

Mixture's intended use Diagnostic reagent for IN VITRO quantitative measurement of urobilinogen 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/colorless

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

2.2 Label Elements

Signal word (R1) Warning

(R2) Danger



Hazardous substances (R1) Ethylenediaminetetraacetic acid disodium salt dihydrate.

(R2) Meta-phosphoric acid, sodium dodecyl sulfate, and 4-Methoxybenzenediazonium

tetrafluoroborate.

**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

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)
Ethylenediaminetetraacetic acid disodium salt dihydrate.	6381-92-6	Acute toxicity, Inhalation (Category 4), H332 Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Respiratory Tract, H373	<100%*
Meta-phosphoric acid	37267-86-0	Skin corrosion (Category 1), H314 Serious eye damage (Category 1), H318	<25.0%*



Chemical name	CAS-No.	Classification	Concentration (% w/w)
Sodium dodecyl sulfate	151-21-3	Flammable solids (Category 2), H228 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Short-term (acute) aquatic hazard (Category 2), H401 Long-term (chronic) aquatic hazard (Category 3), H412	<25.0%*
4- Methoxybenzenediazonium tetrafluoroborate	459-64-3	Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318	<25.0%*
2,3-Butanedione monoxime	57-71-6	Not a hazardous substance or mixture.	<25.0%*

<sup>\*</sup> Exact concentration withheld as it is considered a trade secret

## 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

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)

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.

## 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.

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 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
Meta-phosphoric acid 37267-86-0	Not listed	Not listed	Not listed
Sodium dodecyl sulfate 151-21-3	Not listed	Not listed	Not listed
4-Methoxybenzenediazonium tetrafluoroborate 459-64-3	Not listed	Not listed	Not listed
2,3-Butanedione monoxime 57-71-6	Not listed	Not listed	Not listed
Ethylenediaminetetraacetic acid disodium salt dihydrate. 6381-92-6	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** 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. Do not let product enter drains.

## 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
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

Solubility (water) Soluble
Specific gravity 1-1.1

Flash point No data available 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 available



Partition coefficient: No data available

(n-octanol/water)

Explosive properties No data available

Oxidizing properties No data available

## 10. Stability and Reactivity

**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 Conditions to avoid No data available10.5 Incompatible materials No data available

10.6 Hazardous decomposition Products

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 effects No data available

Target Organ Effects No data available

**Carcinogenicity** Not classified 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.

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

## 12. Ecological Information

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.

## 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 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 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.