

1. Product and Company Identification

1.1	Product name	Enzymatic Creatinine Calibrator
	Substance/mixture	Mixture
	CAS #	Mixture
	Kit number	MD-101212.01, MD-101212.02, MD-101212.03
1.2	Recommended product use	
	Mixture's intended use	Diagnostic reagent for IN VITRO quantitative measurement of enzymatic creatinine 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., Meredith, NH 03246 United States of America
	Telephone	+1 (508) 429-0450
	Email	support@diamonddiagnostics.com
1.4	Emergency Telephone	
	Emergency Phone #	+1 (508) 429-0450

2. Hazards Identification

GHS- Classification

Classification	Skin Corrosion/Irritation (Category 1) Serious Eye Damage/Eye Irritation (Category 1) Respiratory Sensitization (Category 1) Specific Target Organ Toxicity, Single Exposure; Respiratory System (Category 2) Specific Target Organ Toxicity, Repeat Exposure; Respiratory System and Teeth (Cat. 2)
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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	None
Hazardous substances	No data available

2.3	OSHA regulatory status	This product is not hazardous according to OSHA 29CFR 1910.1200.
	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	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Ingestion	If swallowed, may cause discomfort and lead to gastrointestinal tract burns.
	Target organs	Eyes 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	
	H314:	Causes severe skin burns and eye damage
	H318:	Causes serious eye damage
	H334:	May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H371:	May cause damage to organs
	H373:	Causes damage to organs through prolonged or repeated exposure
	Precautionary Statements	
	P260:	Do not breathe dust/fume/gas/mist/vapors/spray
	P264:	Wash skin thoroughly after handling
	P270:	Do not eat, drink or smoke when using this product
	P280:	Wear protective gloves/protective clothing/eye protection/ face protection
	P285:	In case of inadequate ventilation wear respiratory protection
	Response	
	P363:	Wash contaminated clothing before reuse.
	P301 + P330 + P331:	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303 + P361 + P353:	IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower
	P304 + P340:	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing
	P305 + P351 + P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P309 + P311:	IF exposed or if you feel unwell: call a POISON CENTER or doctor/physician
	P342 + P311:	IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician

3. Composition/Information on ingredients

Components:

Chemical name	CAS-No.	Concentration (% w/w)
Hydrochloric Acid	764701-0	0.744%

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 contact, immediately flush area with plenty of water.
Inhalation	If inhaled move victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen, and call physician.
Ingestion	If ingested drink plenty of fluids and contact a physician.
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 eye irritation
Skin Contact	Causes skin irritation
Inhalation	No data available
Ingestion	No data available

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

No data available

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

Irritating fumes in fire conditions. Carbon oxides, nitrogen oxides.

6. Accidental Release Measures

- 6.1 Personal precautions** Wear standard lab coat and safety glasses. Respiratory protection required if inadequate ventilation.
- 6.2 Environmental precautions** No data available.
- 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
Hydrochloric Acid 764701-0	2.8 mg/m ³	7 mg/m ³	70 mg/m ³

- 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** No data available

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
pH	1.1
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	No data available
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 temperature	No data available
Auto-ignition temperature	No data available
Evaporation rate	No data available
Relative Density	No data available
Partition coefficient: (n-octanol/water)	No data available
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	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	No data available
10.6 Hazardous polymerization	Will not occur
10.7 Hazardous decomposition Products	No data available

11. Toxicological Information

11.1 Information on toxicological effects

Sensitization	No data available
Acute effects	May cause discomfort/harm if swallowed.
Local effects	Ingestion may cause irritation and nausea.
Chronic effects	No data available.

Target Organ Effects	No data available
Carcinogenicity	No data available
Epidemiology	No data available
Mutagenicity	No data available
Reproductive effects	No data available
Symptoms and target organs	Direct contact with skin and eyes may cause irritation. Harmful if swallowed.
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 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. No specific waste treatment methods are required. Discarded product should be disposed of according to local, state, and federal regulations. All wastes containing the material should be properly labeled.
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.

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

Not Applicable

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.