Urine Creatinine Calibrator

SAFETY DATA SHEET

Document ID: DR0091-75 Version AH
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Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Urine Creatinine Calibrator

Part number DR0091

Series name AU/DxC AU US

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use For In Vitro Diagnostic Use. See product literature for details.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Manufactured for
Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633

e-mail address SDSNT@beckman.com

1.4 Emergency telephone number

Telephone number (24H) Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887

Distributor and emergency phone no.

Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Section 2 Hazards identification

2.1 Classification of substance or mixture

Product description Mixture

Colorless to light yellow; Clear; Liquid; Mild odor

Classification according to EC 1272/2008 (CLP/GHS)

Skin Corrosion Category 1
Eye Damage Category 1

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Skin Corrosion Category 1
Eye Damage Category 1

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Section 2 Hazards identification (Continued)

2.2 Label elements

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Hazardous ingredients

Hydrochloric Acid

Pictogram

Signal word

DANGER

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves, protective clothing and eye/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.
P304+P340 IF INHALED: Remove person 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.
P310 Immediately call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and information on ingredients

3.2 Mixtures

Hazardous ingredients:		Hazard classification of pure ingredients		
Chemical name	**% by wt.**	**EU 1272/2008 CLP/GHS**	**GHS**	**Note**
Hydrochloric Acid CAS # 7647-01-0 EINECS # 231-595-7 Index # 017-002-01-X	1 - 3	Acute Tox. Oral 4, H302 STOT SE 3, H335 Skin Corr. 1B, H314	Acute Tox. Oral 4, H302 STOT SE 3, H335 Skin Corr. 1B, H314	

See section 8 for available Occupational exposure limits
See Section 15 for additional regulatory information
See Section 16 for description of hazard class and hazard statements

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Section 4 First aid measures

4.1 Description of first aid measures

Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration by trained personnel and obtain medical attention immediately.

Eye contact

If product enters eyes, rinse eyes gently with water for 15 minutes or longer, making sure that the eyelid is held open. Obtain medical advice/attention.

Skin contact

In case of skin contact, rinse with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Obtain medical advice/attention.

Ingestion

If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available. Refer to Section 4.1.

Section 5 Fire fighting measures

5.1 Extinguishing media

In case of fire use carbon dioxide (CO_2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special fire and explosion hazards

No special hazards determined.

Hazardous combustion products

No combustion products posing significant hazards are expected from this product (an aqueous solution).

5.3 Advice for fire fighters

Protective equipment

Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

5.4 Additional information

No further relevant information available.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Observe general safety guidelines for protection; avoid eye and skin contact.

Wear protective gloves, protective clothing and tightly sealed eye/face protection.

6.2 Environmental precautions

Contain spill to prevent migration.

Do not allow the undiluted product to enter sewers/surface or ground water.

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Section 6 Accidental release measures (Continued)

6.3 Methods and material for containment and cleaning up

Spill and leak procedures Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

6.4 Reference to other sections Refer sections 8 and 13.

Section 7 Handling and storage

7.1 Precautions for safe handling Avoid inhaling, ingesting, and contact with eyes and skin.

7.2 Conditions for safe storage, including any incompatibilities

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 Specific end uses No further relevant information available.

Section 8 Exposure controls and personal protection

8.1 Control parameters

Exposure limits

US OSHA

Hydrochloric Acid
CAS # 7647-01-0 — 5 ppm Ceiling; 7 mg/m3 Ceiling

ACGIH

Hydrochloric Acid
CAS # 7647-01-0 — 2 ppm Ceiling

DFG MAK

Hydrochloric Acid
CAS # 7647-01-0 — 4 ppm Peak; 6 mg/m3 Peak; 2 ppm TWA MAK; 3.0 mg/m3 TWA MAK

Ireland

Hydrochloric Acid
CAS # 7647-01-0 — 8 mg/m3 TWA (as F); 5 ppm TWA; 10 ppm STEL; 15 mg/m3 STEL

IOELVs

Hydrochloric Acid
CAS # 7647-01-0 — 10 ppm STEL; 15 mg/m3 STEL; 5 ppm TWA; 8 mg/m3 TWA

NIOSH

Hydrochloric Acid
CAS # 7647-01-0 — 50 ppm IDLH

Japan None established

Sweden (AFS 2015:7 and amendments)

Hydrochloric Acid
CAS # 7647-01-0 — 2 ppm TLV; 3 mg/m3 TLV; 4 ppm Binding STEL; 6 mg/m3 Binding STEL

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Section 8 Exposure controls and personal protection (Continued)

8.2 Exposure controls

Engineering controls	No special engineering controls are required. Use with good general ventilation.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.
Skin protection	Wear impervious gloves such as Nitrile or equivalent and protective clothing. Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN 14605:2005+A1:2009 or appropriate government standards.
Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid	**Specific gravity (water=1.0)**	1.00 - 1.03 @20°C
Color	Colorless to light yellow	**Solubility**	
Transparency	Clear	**Water**	Miscible
Odor	Mild odor	**Organic**	Not determined
pH	< 1.5	**Partition coefficient: n-octanol/water**	Not determined
Freezing point	Not determined	**Auto-ignition temp.**	Not applicable
Boiling point	Not determined	**Decomposition temperature**	Not determined
Flash point	Not applicable	**Percent volatiles**	Not applicable
Evaporation rate	Not determined	**Vapor pressure**	Not determined
Flammability (solid, gas)	Not applicable	**Viscosity**	Not determined
Flammability limits	Not applicable	**Explosive properties**	Not applicable
Vapor density	Not determined	**Oxidizing properties**	Not applicable
Odor threshold	Hydrochloric Acid 0.06 ppm odor threshold value (detectable)		

9.2 Other information No further relevant information available.

Section 10 Stability and reactivity

10.1 Reactivity	No further relevant information available.
10.2 Chemical stability	The product is stable in accordance with recommended storage conditions.

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Section 10 Stability and reactivity (Continued)

10.3 Possibility of hazardous reactions

No further relevant information available.

10.4 Conditions to avoid

To maintain product performance keep away from strong acids, strong bases, strong oxidizers.

Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

Section 11 Toxicological information

11.1 Information on toxicological effects

Toxicity data for hazardous ingredients

Hydrochloric Acid CAS # 7647-01-0	Dermal LD50 Rabbit >5010 mg/kg; Inhalation LC50 Rat 1.68 mg/L 1 h; Oral LD50 Rat 238 - 277 mg/kg

Primary routes of exposure

Eye contact, ingestion, inhalation, and skin contact.

Acute toxicity

Not classified based on available data.

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory/skin sensitization

Not classified based on available data.

Carcinogenicity

No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

Germ cell mutagenicity

Not classified based on available data.

Reproductive toxicity

Not classified based on available data.

Specific target organ toxicity – single exposure

Not classified based on available data.

Specific target organ toxicity – repeated exposure

Not classified based on available data.

Aspiration hazard

Not classified based on available data.

Other information

No further relevant information available.

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Section 12 Ecological information

12.1 Ecotoxicity

Fresh water species	No information available.
Microtox	No information available.
Water flea	No information available.
Fresh water algae	No information available.

12.2 Persistence and degradability Not determined for the product.

12.3 Bioaccumulation Not determined for the product.

12.4 Mobility in soil Not determined for the product.

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

Section 13 Disposal considerations

13.1 Waste treatment methods

Product waste disposal Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

13.2 Additional information Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

Section 14 Transport information

	Shipping information	IATA	IMDG	US DOT	European ADR	Canadian TDG
14.1	UN/ID number	1789	1789	1789	1789	PIN - 1789
14.2	Shipping name	Hydrochloric acid solution				
14.3	Hazard class	8 Corrosives	8 Corrosive substances	8 Corrosive material	8 Corrosive substances	8 Corrosives
	Subsidiary risk	None	None	None	None	None
	Classification code	Not applicable	Not applicable	Not applicable	C1	Not applicable
14.4	Packing group	III	III	III	III	III
	Special provisions	A3, A803	223	Not applicable	520	None
	Additional information					
	IATA ERG code	8L	Not applicable	Not applicable	Not applicable	Not applicable
	EmS	Not applicable	F-A, S-B	Not applicable	Not applicable	Not applicable

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Section 14 Transport information (Continued)

NAERG code	Not applicable	Not applicable	157	Not applicable	157

14.5 Environmental hazards

Marine pollutant	Not applicable	No	Not applicable	Not applicable	Not applicable

14.6 Special precautions for user

No special precautions for users are required.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal and State Regulations

SARA 313 (Section 313, Title III reporting requirements)

CAS # 7647-01-0	Hydrochloric Acid	1.0% de minimis concentration

CERCLA (The Comprehensive Environmental Response, Compensation, and Liability Act) 40 CFR 302.4

CAS # 7647-01-0	Hydrochloric Acid

California Proposition 65

Chemical which is known to the State of California to cause cancer

No ingredients listed.

Chemical which is known to the State of California to cause development toxicity

No ingredients listed.

Chemical which is known to the State of California to cause male reproductive toxicity

No ingredients listed.

Chemical which is known to the State of California to cause female reproductive toxicity

No ingredients listed.

Massachusetts Right To Know (RTK) List

CAS # 7647-01-0	Hydrochloric Acid

New Jersey Dept. of Health Right To Know (RTK) List

CAS # 7647-01-0	Hydrochloric Acid

Pennsylvania Right To Know (RTK) List

CAS # 7647-01-0	Hydrochloric Acid

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Section 15 Regulatory information (Continued)

EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.

Refer to Section 3

Canada

This product is exempt from WHMIS label and SDS requirements.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below the cutoff limits of 0.1% for carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3.

Section 16 Other information

Beckman Coulter safety rating	**Flammability: 0** **Health: 3** **Reactivity with water: 0** **Physical contact: 3**	Code 0=None 1=Slight 2=Caution 3=Severe

Revision changes

Updated Section 14.
Reviewed for three-years cycle.

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Description of hazard class and hazard statements from Section 3

Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4
Skin Corr. 1B - Skin Corrosion Category 1B
STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.

Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany's maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA DGR - International Air Transport Association Dangerous Goods Regulation
ICAO - International Civil Aviation Organization

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Section 16 Other information (Continued)

IMDG - International Maritime Dangerous Goods
IOELVs - European Unions' Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%

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