

## Kit SDS Cover Sheet

Document ID: DR0070-1-75: Version AH  
Revision Date (year/month/day) 2023/12/24  
Last Revision Date (year/month/day) 2023/05/28

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### Product information

**Product name** Lyophilized Chemistry Calibrator Level 1

**Part number** DR0070-1

**Series name** AU/DxC AU US

**Additional product information**

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

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### Components

**Description** Lyophilized Chemistry Calibrator Level 1  
Beckman Coulter Calibrator Diluent

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### Transport information

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.



## SAFETY DATA SHEET

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### Section 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** Lyophilized Chemistry Calibrator Level 1  
**Part number** Component of P/N DR0070-1  
**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

##### Supplier

CANADA  
 Beckman Coulter Canada LP  
 7075 Financial Drive  
 Mississauga, ON L5N 6V8  
 Canada  
 1-800-463-7828

UNITED KINGDOM  
 Beckman Coulter (UK) Ltd.  
 Oakley Court  
 Kingsmead Business Park, London  
 Road  
 High Wycombe  
 United Kingdom HP11 1JU  
 01494 441181

AUSTRALIA  
 Beckman Coulter Australia Pty Ltd  
 23-27 Chaplin Drive  
 Lane Cove NSW 2066  
 Australia  
 ABN 81 002 011 672  
 24 Hour emergency contact phone  
 number:  
 1800 060 881

SWITZERLAND  
 Beckman Coulter Eurocenter SA  
 22, rue Juste-Olivier, Case Postale  
 1044,  
 CH-1260 Nyon 1, Switzerland.  
 Telephone: +41 (0)22 365 36 11  
 Monday through Friday, 9:00 am to  
 7:00pm)

**SAFETY DATA SHEET**Document ID: DR0070-1-75 Version AH  
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Last Revision Date (year/month/day) 2023/05/28**Section 1 Identification of the substance/mixture and of the company/undertaking (Continued)**

NEW ZEALAND  
Beckman Coulter NZ  
Unit J, 33 Walmsley Road, Otahuhu,  
Auckland 1062, New Zealand  
Hours available: 08:30 - 17:00

ICELAND / ÍSLAND  
Beckman Coulter AB  
Ekbacksvägen 28  
168 69 Bromma  
Sweden  
Phone No.: +46 80564 85 900  
Hours available: 08.00-16.30

MALTA  
DX Distributor:  
Cherubino Ltd  
DELFI Building, Sliema Road, Gzira,  
GZR 1637  
Telephone: +356 21343270  
Hours available: 08:30 – 17:00  
SDSNT@beckman.com

**e-mail address****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.

UNITED STATES - Emergency Phone (24h): Chemtrec (800) 424-9300,  
International (001) 703-527-3887

CANADA - Poison Centre: 1-844-764-7669; Centre antipoison du Québec:  
1-800-463-5060

UNITED KINGDOM - For UK and Scotland: Emergency Call 999

IRELAND - National Poisons Information Centre Phone No.: Members of  
Public: +353 (01) 809 2166 (8:00 am to 10:00 pm 7 days a week); Healthcare  
Professionals: +353 (01) 809 2566 (24 hour service)

AUSTRALIA - 24 Hour emergency contact phone number: 1800 060 881

NEW ZEALAND - 24 Hour emergency number: 0800 446 109

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### Section 2 Hazards identification

#### 2.1 Classification of the substance or mixture

##### Product description

Mixture

Light yellow; Lyophilized - Liquid after reconstitution.; Slight odor

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

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

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

Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

#### 2.2 Label elements

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

Not classified as hazardous per EC 1272/2008 (CLP/GHS), US-OSHA and GHS

#### 2.3 Other hazards

This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases.

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:

None

### 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 as a precaution.

##### Skin contact

In case of skin contact, rinse with water as a precaution.

##### 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

No adverse symptoms or effects have been identified.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

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### Section 5 Firefighting measures

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- 5.1 Extinguishing media** In case of fire use carbon dioxide (CO<sub>2</sub>), 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 firefighters**  
**Protective equipment** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
- Additional information** No further relevant information available.

### Section 6 Accidental release measures

- 
- 6.1 Personal precautions, protective equipment and emergency procedures**  
**Personal precautions** This product contains material of human origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures.
- 6.2 Environmental precautions** Contain spill to prevent migration.  
Do not allow the undiluted product to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up**  
**Spill and leak procedures** If the product is liquid form, as a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.  
If the product is solid or lyophilized form, use vacuum or carefully sweep up spilled material and place in container for suitable disposal. Avoid generating dust.
- 6.4 Reference to other sections** Refer sections 8 and 13.

### Section 7 Handling and storage

- 
- 7.1 Precautions for safe handling** This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

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### Section 7 Handling and storage (Continued)

#### 7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

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 None established

ACGIH None established

##### ACGIH Biological Exposure Indices (BEI)

None established

DFG MAK None established

Ireland None established

##### IOELVs

None established

NIOSH None established

China None established

Croatia None established

Japan None established

##### Sweden (AFS 2015:7 and amendments)

None established

Turkey None established

#### 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 protective clothing and impervious gloves, as appropriate.

##### Respiratory protection

Under normal conditions, the use of this product should not require respiratory protection.

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### Section 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Lyophilized - Liquid after reconstitution.	<b>Density and/or relative density</b>	≈ 1.0
<b>Color</b>	Light yellow	<b>Solubility</b>	
<b>Odor</b>	Slight odor	<b>Water</b>	Miscible
<b>pH</b>	7.0 - 8.5	<b>Organic</b>	Not determined
<b>Freezing point</b>	Not determined	<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Boiling point or initial boiling point and boiling range</b>	Not determined	<b>Auto-ignition temp.</b>	Not applicable
<b>Flash point</b>	Not applicable	<b>Decomposition temperature</b>	Not determined
<b>Flammability</b>	Not applicable	<b>Vapor pressure</b>	Not determined
		<b>Kinematic viscosity</b>	Not determined
<b>Lower and upper explosion limit</b>	Not applicable		
<b>Relative vapor density</b>	Not determined		
<b>Particle characteristics</b>	Not applicable		

#### 9.2 Other information

##### Information with regard to physical hazard classes

No further relevant information available.

##### Other safety characteristics

No further relevant information available.

### Section 10 Stability and reactivity

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical stability</b>	The product is stable in accordance with recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No further relevant information available.
<b>10.4 Conditions to avoid</b>	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
<b>10.5 Incompatible materials</b>	No further relevant information available.

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### Section 10 Stability and reactivity (Continued)

#### 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 hazard classes

##### Toxicity data for hazardous ingredients

Not applicable

**Primary routes of exposure** Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.

**Acute toxicity** Not classified based on available data.

**Skin corrosion/irritation** Not classified based on available data.

**Serious eye damage/irritation** Not classified based on available data.

**Respiratory or skin sensitisation** Not classified based on available data.

**Germ cell mutagenicity** 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.

**Reproductive toxicity** Not classified based on available data.

##### Specific target organ toxicity (STOT) – single exposure

Not classified based on available data.

##### Specific target organ toxicity (STOT) – repeated exposure

Not classified based on available data.

**Aspiration hazard** Not classified based on available data.

#### 11.2 Information on other hazards

##### Endocrine disrupting properties

This product does not have substance(s) of endocrine disrupting properties for health according to REACH Article 57(f).

**Other information** This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases.



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### Section 12 Ecological information

#### 12.1 Toxicity

**Fresh water species** No information available.

**Microtox/organisms** 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 Bioaccumulative potential** 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 Endocrine disrupting properties

This product does not have substance(s) of endocrine disrupting properties for environment according to REACH Article 57(f).

**12.7 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.

Dispose of as potentially biohazardous waste and 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.

##### Additional information

Suggested European waste catalogue 18 01 03\* - wastes whose collection and disposal is subject to special requirements in order to prevent infection. Dispose in accordance with national, state and local waste regulations

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### Section 14 Transport information

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

- 14.1 UN/ID number:** Not regulated for transportation
- 14.2 UN proper shipping name:** Not regulated for transportation
- 14.3 Transport hazard class(es):** Not regulated for transportation
- 14.4 Packing group:** Not regulated for transportation
- 14.5 Environmental hazards:** Not regulated for transportation
- 14.6 Special precautions for user:** None
- 14.7 Maritime transport in bulk according to IMO instruments:** 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)**

No ingredients listed.

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

No ingredients listed.

##### **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**

No ingredients listed.

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

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### **Section 15 Regulatory information (Continued)**

No ingredients listed.

#### **Pennsylvania Right To Know (RTK) List**

No ingredients listed.

#### **EU Regulations**

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

#### **Water Hazard Class (Germany)**

WGK 1, low water endangering

#### **Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - Substances Subject to Suspicious Transactions Reporting**

No ingredients listed.

#### **Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - Restricted Explosives Precursors**

No ingredients listed.

#### **REACH 1907/2006 EC - Candidate List of Substances of Very High Concern (SVHC)**

No ingredients listed.

#### **REACH 1907/2006 EC - Annex XVII – Restrictions on Certain Dangerous Substances**

No ingredients listed.

#### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorisation**

No ingredients listed.

Refer to Section 3

#### **UK Regulations**

#### **UK REACH Regulation (as Amended) - List of substances subject to authorisation**

Refer to Section 3

#### **Canada**

This product is exempt from WHMIS label and SDS requirements.

#### **China**

#### **Catalog of Hazardous Chemicals - Hazardous Chemicals**

No ingredients listed.

#### **Inventory - China - Inventory of Existing Chemical Substances (IECSC)**

All ingredients are listed or exempted.

#### **Turkey**

#### **Turkey-REACH - KKDIK Regulation - Annex 17 – Restrictions**

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### Section 15 Regulatory information (Continued)

No ingredients listed.

#### International

#### UN/FAO/Rotterdam Convention - Chemicals Subject to Prior Informed Consent (PIC)

No ingredients listed.

#### 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

<b>Beckman Coulter safety rating</b>	<b>Flammability: 0</b> <b>Health: 1</b> <b>Reactivity with water: 0</b> <b>Physical contact: 1</b>	<b>Code</b> 0=None 1=Slight 2=Caution 3=Severe
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**Revision changes** Updated sections 1, 2, 3, 4, 8 and 15

#### Document version and issue/revision date

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Version: AH

#### Hazard Classification Procedure

This mixture was classified using the calculation method for human health and environmental hazards. Physical hazards were determined based on the specification.

#### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists (ACGIH)  
ADR and RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road and Rail  
CLP - Classification, Labeling and Packaging  
DFGMAK - Republic Germany's maximum exposure limit  
EC50 - Concentration of a substance in an environmental medium expected to produce a certain effect in 50% of test organisms  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals (GHS)  
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  
IDLH - Immediately Dangerous to Life or Health  
IMDG - International Maritime Dangerous Goods  
IMO - International Maritime Organization

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**Section 16 Other information (Continued)**

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IOELVs - European Unions' Indicative Occupational Exposure Limit Values  
LC50 - Concentration of a substance in water causing death (50% of the tested population) to aquatic life  
LD50 - Lethal Dose 50%  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
PBT - Persistent Bioaccumulative and Toxic substances  
PEL - Permissible Exposure Limit  
SARA - Superfund Amendments and Reauthorization Act  
STEL – Short Term Exposure Limit  
STLV - Short Term Limit Value  
STV - Short Term Value  
TDG - Canadian Transportation of Dangerous Goods Regulations  
TLV - Threshold Limit Value  
TWA – Time Weighted Average  
UN GHS - United Nations Globally Harmonized System  
US DOT - United States Department of Transportation  
US OSHA - United States Occupational Safety and Health Administration  
vPvB - very Persistent and very Bioaccumulative substances  
WHMIS - Workplace Hazardous Material Information System

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### Section 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** Beckman Coulter Calibrator Diluent  
**Part number** Component of P/N DR0070-1  
**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

##### Supplier

CANADA  
 Beckman Coulter Canada LP  
 7075 Financial Drive  
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 Canada  
 1-800-463-7828

UNITED KINGDOM  
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AUSTRALIA  
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 ABN 81 002 011 672  
 24 Hour emergency contact phone  
 number:  
 1800 060 881

SWITZERLAND  
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 1044,  
 CH-1260 Nyon 1, Switzerland.  
 Telephone: +41 (0)22 365 36 11  
 Monday through Friday, 9:00 am to  
 7:00pm)

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### Section 1 Identification of the substance/mixture and of the company/undertaking (Continued)

NEW ZEALAND  
Beckman Coulter NZ  
Unit J, 33 Walmsley Road, Otahuhu,  
Auckland 1062, New Zealand  
Hours available: 08:30 - 17:00

ICELAND / ÍSLAND  
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Ekbacksvägen 28  
168 69 Bromma  
Sweden  
Phone No.: +46 80564 85 900  
Hours available: 08.00-16.30

MALTA  
DX Distributor:  
Cherubino Ltd  
DELFI Building, Sliema Road, Gzira,  
GZR 1637  
Telephone: +356 21343270  
Hours available: 08:30 – 17:00  
SDSNT@beckman.com

#### e-mail address

#### 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.

UNITED STATES - Emergency Phone (24h): Chemtrec (800) 424-9300, International (001) 703-527-3887

CANADA - Poison Centre: 1-844-764-7669; Centre antipoison du Québec: 1-800-463-5060

UNITED KINGDOM - For UK and Scotland: Emergency Call 999

IRELAND - National Poisons Information Centre Phone No.: Members of Public: +353 (01) 809 2166 (8:00 am to 10:00 pm 7 days a week); Healthcare Professionals: +353 (01) 809 2566 (24 hour service)

AUSTRALIA - 24 Hour emergency contact phone number: 1800 060 881

NEW ZEALAND - 24 Hour emergency number: 0800 446 109

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### Section 2 Hazards identification

#### 2.1 Classification of the substance or mixture

##### Product description

Mixture  
Colorless; Liquid; Odorless

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

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

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

Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

#### 2.2 Label elements

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

Not classified as hazardous per EC 1272/2008 (CLP/GHS), US-OSHA and GHS

#### 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:

None

### Section 4 First aid measures

#### 4.1 Description of first aid measures

Inhalation Not applicable

Eye contact Not applicable

Skin contact Not applicable

Ingestion Not applicable

#### 4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

### Section 5 Firefighting measures

5.1 Extinguishing media Not applicable

#### 5.2 Special hazards arising from the substance or mixture

##### Special fire and explosion hazards

No special hazards determined.



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### Section 5 Firefighting measures (Continued)

#### Hazardous combustion products

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

#### 5.3 Advice for firefighters

##### Protective equipment

Not applicable

##### Additional information

No further relevant information available.

### Section 6 Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### Personal precautions

No special precautions are necessary. Use good laboratory procedures.

#### 6.2 Environmental precautions

Contain spill to prevent migration.

#### 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

No special precautions are necessary; use good laboratory procedures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

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

None established

##### ACGIH

None established

##### ACGIH Biological Exposure Indices (BEI)

None established

##### DFG MAK

None established

##### Ireland

None established

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### Section 8 Exposure controls and personal protection (Continued)

#### IOELVs

None established

#### NIOSH

None established

#### China

None established

#### Croatia

None established

#### Japan

None established

#### Sweden (AFS 2015:7 and amendments)

None established

#### Turkey

None established

### 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 protective clothing and impervious gloves, as appropriate.

#### Respiratory protection

Under normal conditions, the use of this product should not require respiratory protection.

### Section 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Density and/or relative density</b>	1.00 @20°C
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	7.8 - 8.6	<b>Organic</b>	Not determined
<b>Freezing point</b>	Not determined	<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Boiling point or initial boiling point and boiling range</b>	Not determined	<b>Auto-ignition temp.</b>	Not applicable
<b>Flash point</b>	Not applicable	<b>Decomposition temperature</b>	Not determined
<b>Flammability</b>	Not applicable	<b>Vapor pressure</b>	Not determined
		<b>Kinematic viscosity</b>	Not determined

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### Section 9 Physical and chemical properties (Continued)

<b>Lower and upper explosion limit</b>	Not applicable
<b>Relative vapor density</b>	Not determined
<b>Particle characteristics</b>	Not applicable
<b>9.2 Other information</b>	
<b>Information with regard to physical hazard classes</b>	No further relevant information available.
<b>Other safety characteristics</b>	No further relevant information available.

### Section 10 Stability and reactivity

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical stability</b>	The product is stable in accordance with recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No further relevant information available.
<b>10.4 Conditions to avoid</b>	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
<b>10.5 Incompatible materials</b>	No further relevant information available.
<b>10.6 Hazardous decomposition products</b>	No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

### Section 11 Toxicological information

<b>11.1 Information on hazard classes</b>	
<b>Toxicity data for hazardous ingredients</b>	Not applicable
<b>Primary routes of exposure</b>	Eye contact, ingestion, inhalation, and skin contact.
<b>Acute toxicity</b>	Not classified based on available data.
<b>Skin corrosion/irritation</b>	Not classified based on available data.
<b>Serious eye damage/irritation</b>	Not classified based on available data.
<b>Respiratory or skin sensitisation</b>	Not classified based on available data.
<b>Germ cell mutagenicity</b>	Not classified based on available data.

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### Section 11 Toxicological information (Continued)

<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.
<b>Reproductive toxicity</b>	Not classified based on available data.
<b>Specific target organ toxicity (STOT) – single exposure</b>	Not classified based on available data.
<b>Specific target organ toxicity (STOT) – repeated exposure</b>	Not classified based on available data.
<b>Aspiration hazard</b>	Not classified based on available data.

#### 11.2 Information on other hazards

##### Endocrine disrupting properties

This product does not have substance(s) of endocrine disrupting properties for health according to REACH Article 57(f).

**Other information** No further relevant information available.

### Section 12 Ecological information

#### 12.1 Toxicity

<b>Fresh water species</b>	No information available.
<b>Microtox/organisms</b>	No information available.
<b>Water flea</b>	No information available.
<b>Fresh water algae</b>	No information available.

**12.2 Persistence and degradability** Not determined for the product.

**12.3 Bioaccumulative potential** 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.

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### **Section 12 Ecological information (Continued)**

#### **12.6 Endocrine disrupting properties**

This product does not have substance(s) of endocrine disrupting properties for environment according to REACH Article 57(f).

#### **12.7 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.

##### **Additional information**

No further relevant information available.

### **Section 14 Transport information**

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

**14.1 UN/ID number:** Not regulated for transportation

**14.2 UN proper shipping name:** Not regulated for transportation

**14.3 Transport hazard class(es):** Not regulated for transportation

**14.4 Packing group:** Not regulated for transportation

**14.5 Environmental hazards:** Not regulated for transportation

**14.6 Special precautions for user:** None

**14.7 Maritime transport in bulk according to IMO instruments:** 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)**

No ingredients listed.

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

No ingredients listed.

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### **Section 15 Regulatory information (Continued)**

#### **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**

No ingredients listed.

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

No ingredients listed.

#### **Pennsylvania Right To Know (RTK) List**

No ingredients listed.

#### **EU Regulations**

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

#### **Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - Substances Subject to Suspicious Transactions Reporting**

No ingredients listed.

#### **Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - Restricted Explosives Precursors**

No ingredients listed.

#### **REACH 1907/2006 EC - Candidate List of Substances of Very High Concern (SVHC)**

No ingredients listed.

#### **REACH 1907/2006 EC - Annex XVII – Restrictions on Certain Dangerous Substances**

No ingredients listed.

#### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorisation**

No ingredients listed.

Refer to Section 3

#### **UK Regulations**

#### **UK REACH Regulation (as Amended) - List of substances subject to authorisation**

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### Section 15 Regulatory information (Continued)

Refer to Section 3

#### Canada

This product is exempt from WHMIS label and SDS requirements.

#### China

##### **Catalog of Hazardous Chemicals - Hazardous Chemicals**

No ingredients listed.

##### **Inventory - China - Inventory of Existing Chemical Substances (IECSC)**

All ingredients are listed or exempted.

#### Turkey

##### **Turkey-REACH - KKDIK Regulation - Annex 17 – Restrictions**

No ingredients listed.

#### International

##### **UN/FAO/Rotterdam Convention - Chemicals Subject to Prior Informed Consent (PIC)**

No ingredients listed.

### 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

<b>Beckman Coulter safety rating</b>	<b>Flammability: 0</b> <b>Health: 0</b> <b>Reactivity with water: 0</b> <b>Physical contact: 0</b>	Code 0=None 1=Slight 2=Caution 3=Severe
<b>Revision changes</b>	Updated sections 1, 2, 3, 4, 8 and 15	
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<b>Hazard Classification Procedure</b>	This mixture was classified using the calculation method for human health and environmental hazards. Physical hazards were determined based on the specification.	

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### Section 16 Other information (Continued)

#### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists (ACGIH)  
ADR and RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road and Rail  
CLP - Classification, Labeling and Packaging  
DFGMAK - Republic Germany's maximum exposure limit  
EC50 - Concentration of a substance in an environmental medium expected to produce a certain effect in 50% of test organisms  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals (GHS)  
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  
IDLH - Immediately Dangerous to Life or Health  
IMDG - International Maritime Dangerous Goods  
IMO - International Maritime Organization  
IOELVs - European Unions' Indicative Occupational Exposure Limit Values  
LC50 - Concentration of a substance in water causing death (50% of the tested population) to aquatic life  
LD50 - Lethal Dose 50%  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
PBT - Persistent Bioaccumulative and Toxic substances  
PEL - Permissible Exposure Limit  
SARA - Superfund Amendments and Reauthorization Act  
STEL – Short Term Exposure Limit  
STLV - Short Term Limit Value  
STV - Short Term Value  
TDG - Canadian Transportation of Dangerous Goods Regulations  
TLV - Threshold Limit Value  
TWA – Time Weighted Average  
UN GHS - United Nations Globally Harmonized System  
US DOT - United States Department of Transportation  
US OSHA - United States Occupational Safety and Health Administration  
vPvB - very Persistent and very Bioaccumulative substances  
WHMIS - Workplace Hazardous Material Information System

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### Section 16 Other information (Continued)

For further information, please contact your local Beckman Coulter, Inc. representative.

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