

## Kit SDS Cover Sheet

Document ID: 6604248-75: Version AH  
Revision Date (year/month/day) 2023/12/22  
Last Revision Date (year/month/day) 2023/05/28

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### Product information

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**Product name** CYTO-TROL Control Cells Kit

**Part number** 6604248

**Additional product information**

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

### Components

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**Description** CYTO-TROL Control Cells  
Reconstitution Buffer

### Transport information

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



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

#### 1.1 Product identifier

**Product name** CYTO-TROL Control Cells

**Part number** Component of P/N 6604248

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

**Product use** Data given is for reconstituted solution.  
 For In Vitro Diagnostic Use. See product literature for details.

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer

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)

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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  
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

**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.

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

### Section 2 Hazards identification

#### 2.1 Classification of the substance or mixture

**Product description**

Mixture

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### Section 2 Hazards identification (Continued)

Colorless; Lyophilized - Liquid after reconstitution.; 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

#### 2.3 Other hazards

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

This product contains material(s) of animal origin. Observe general safety guidelines for protection when handling this product.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

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<br>CLP/GHS   | GHS  | Note |
| Sodium Azide<br>CAS # 26628-22-8<br>EINECS # 247-852-1<br>Index # 011-004-00-7 | < 0.1    | Acute Tox. Oral 2, H300<br>Aquatic Acute 1, H400<br>Aquatic Longterm 1, H410<br>EUH032<br><br>Acute Toxicity Estimates (ATE)<br>ATE Oral = 27 mg/kg | Acute Tox. Oral 2, H300<br>Aquatic Acute 1, H400<br>Aquatic Longterm 1, H410 | 2, 8 |

2 - Substance with Community workplace exposure limits

8 - Present at concentration below the cut-off limits.

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

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | 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. |
| <b>Eye contact</b>  | If product enters eyes, rinse eyes gently with water as a precaution.  |
| <b>Skin contact</b> | In case of skin contact, rinse with water as a precaution.   |
| <b>Ingestion</b>    | 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.

### Section 5 Firefighting measures

- 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 a material of animal origin. Observe general safety guidelines for protection during clean up procedures.  
Wear protective gloves, protective clothing and 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.  
Dispose of contents/container in accordance with local regulations

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### Section 6 Accidental release measures (Continued)

#### 6.3 Methods and material for containment and cleaning up

##### Spill and leak procedures

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.

#### 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.

#### 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

None established

##### ACGIH

Sodium Azide  
CAS # 26628-22-8

0.29 mg/m<sup>3</sup> Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)

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

None established

##### DFG MAK

Sodium Azide  
CAS # 26628-22-8

0.4 mg/m<sup>3</sup> Peak (inhalable fraction); 0.2 mg/m<sup>3</sup> TWA MAK (inhalable fraction)

##### Ireland

Sodium Azide  
CAS # 26628-22-8

0.1 mg/m<sup>3</sup> TWA; 0.3 mg/m<sup>3</sup> STEL; Potential for cutaneous absorption

##### IOELVs

Sodium Azide  
CAS # 26628-22-8

Possibility of significant uptake through the skin; 0.1 mg/m<sup>3</sup> TWA; 0.3 mg/m<sup>3</sup> STEL

##### NIOSH

None established

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

#### China

Sodium Azide 0.3 mg/m<sup>3</sup> Ceiling MAC  
CAS # 26628-22-8

#### Croatia

Sodium Azide Skin Notation; 0.1 mg/m<sup>3</sup> TWA [GVI]; 0.3 mg/m<sup>3</sup> STEL [KGVI]  
CAS # 26628-22-8

#### Japan

None established

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

Sodium Azide 0.1 mg/m<sup>3</sup> TLV NGV; 0.3 mg/m<sup>3</sup> Binding STEL Bindande KGV  
CAS # 26628-22-8

#### Turkey

Sodium Azide 0.3 mg/m<sup>3</sup> STEL; Skin notation; 0.1 mg/m<sup>3</sup> TWA  
CAS # 26628-22-8

### 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>   | Lyophilized - Liquid after reconstitution. | <b>Density and/or relative density</b>                   | 1.005 @20°C    |
| <b>Color</b>  | Colorless                                  | <b>Solubility</b>  |                |
| <b>Odor</b>   | Odorless                                   | <b>Water</b>   | Miscible       |
| <b>pH</b>   | 8 - 9                                      | <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 |

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

#### Kinematic viscosity

Not determined

**Lower and upper explosion limit** Not applicable

**Relative vapor density** Not determined

**Particle characteristics** 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

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability** The product is stable in accordance with recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

**10.4 Conditions to avoid** Avoid contact with incompatible materials.  
Avoid exposure to heat and direct sunlight.

**10.5 Incompatible materials** Metals and metallic compounds

#### 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

Sodium Azide  
CAS # 26628-22-8

Dermal LD50 Rabbit 20 mg/kg (NLM\_HSDB); Inhalation LC50 Rat 0.054 - 0.52 mg/L 4 h (dust)(ECHA\_API); Oral LD50 Rat 27 mg/kg (NZ\_CCID)

##### 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.



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### Section 11 Toxicological information (Continued)

|  |  |
|--|--|
| <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.  |
| <b>Carcinogenicity</b>   | This product does not contain a reportable concentration ( $\geq 0.1\%$ ) of any ingredient listed as carcinogen 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.  |
| <b>11.2 Information on other hazards</b>                         |  |
| <b>Endocrine disrupting properties</b>                           | This product does not have substance(s) of endocrine disrupting properties for health according to REACH Article 57(f).  |
| <b>Other information</b>   | This product contains material(s) of animal origin. Observe general safety guidelines for protection when handling this product.                                       |

### Section 12 Ecological information

|  |   |
|--|---|
| <b>12.1 Toxicity</b>                           |   |
| <b>Fresh water species</b>                     |   |
| Sodium Azide<br>CAS # 26628-22-8               | LC50 96 h Oncorhynchus mykiss: 0.8 mg/L; LC50 96 h Lepomis macrochirus: 0.7 mg/L; LC50 96 h Pimephales promelas: 5.46 mg/L [flow-through] |
| <b>Microtox/organisms</b>                      | No information available.   |
| <b>Water flea</b>                              | No information available.   |
| <b>Fresh water algae</b>                       | No information available.   |
| <b>12.2 Persistence and degradability</b>      | Not determined for the product.   |
| <b>12.3 Bioaccumulative potential</b>          | Not determined for the product.   |
| <b>12.4 Mobility in soil</b>                   | Not determined for the product.   |
| <b>12.5 Results of PBT and vPvB assessment</b> | 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

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

### 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.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76). To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

##### 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

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

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### 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 # 26628-22-8 | Sodium Azide | 1.0% de minimis concentration |
| CAS # 50-00-0    | Formaldehyde | 0.1% de minimis concentration |

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

|                  |                  |
|------------------|------------------|
| CAS # 1310-73-2  | Sodium Hydroxide |
| CAS # 26628-22-8 | Sodium Azide     |
| CAS # 50-00-0    | Formaldehyde     |

##### **California Proposition 65**

 **WARNING** This product can expose you to chemical which is known to the State of California to cause cancer and/or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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

|               |              |
|---------------|--------------|
| CAS # 50-00-0 | Formaldehyde |
|---------------|--------------|

##### **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 # 1310-73-2  | Sodium Hydroxide |
| CAS # 7757-82-6  | Sodium Sulfate   |
| CAS # 26628-22-8 | Sodium Azide     |
| CAS # 50-00-0    | Formaldehyde     |

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

|                  |                  |
|------------------|------------------|
| CAS # 1310-73-2  | Sodium Hydroxide |
| CAS # 26628-22-8 | Sodium Azide     |
| CAS # 57-55-6    | Propylene Glycol |
| CAS # 50-00-0    | Formaldehyde     |

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### Section 15 Regulatory information (Continued)

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

|                  |                  |
|------------------|------------------|
| CAS # 1310-73-2  | Sodium Hydroxide |
| CAS # 7757-82-6  | Sodium Sulfate   |
| CAS # 26628-22-8 | Sodium Azide     |
| CAS # 57-55-6    | Propylene Glycol |
| CAS # 50-00-0    | Formaldehyde     |

#### 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

Not applicable.

#### 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

|                  |                  |
|------------------|------------------|
| CAS # 1310-73-2  | Sodium Hydroxide |
| CAS # 26628-22-8 | Sodium Azide     |
| CAS # 50-00-0    | Formaldehyde     |

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

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### Section 15 Regulatory information (Continued)

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><br><b>Health: 1</b><br><b>Reactivity with water: 0</b><br><b>Physical contact: 1</b>   | Code<br>0=None<br>1=Slight<br>2=Caution<br>3=Severe |
| <b>Revision changes</b>   | Updated sections 1, 2, 3, 4, 8 and 15   |   |
| <b>Document version and issue/revision date</b>                         | Revision Date (year/month/day) 2023/12/22<br>Last Revision Date (year/month/day) 2023/05/28<br>Document ID: 6604248-75<br>Version: AH   |   |
| <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.   |   |
| <b>Description of hazard class and hazard statements from Section 3</b> | Aquatic Acute 1 - Aquatic Hazard Acute, Category 1<br>Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2<br>Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1<br>EUH032 - Contact with acids liberates very toxic gas.<br>H300 - Fatal if swallowed.<br>H400 - Very toxic to aquatic life.<br>H410 - Very toxic to aquatic life with long lasting effects. |   |

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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

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

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## SAFETY DATA SHEET

Document ID: 6604248-75 Version AH  
 Revision Date (year/month/day) 2023/12/22  
 Last Revision Date (year/month/day) 2023/05/28

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

#### 1.1 Product identifier

**Product name** Reconstitution Buffer

**Part number** Component of P/N 6604248

#### 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

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)

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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  
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

### Section 2 Hazards identification

#### 2.1 Classification of the substance or mixture

**Product description**

Mixture



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## Section 2 Hazards identification (Continued)

Colorless to pale yellow; 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

#### 2.3 Other hazards

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

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

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

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<br>CLP/GHS   | GHS  | Note |
| Sodium Azide<br>CAS # 26628-22-8<br>EINECS # 247-852-1<br>Index # 011-004-00-7 | < 0.1    | Acute Tox. Oral 2, H300<br>Aquatic Acute 1, H400<br>Aquatic Longterm 1, H410<br>EUH032<br><br>Acute Toxicity Estimates (ATE)<br>ATE Oral = 27 mg/kg | Acute Tox. Oral 2, H300<br>Aquatic Acute 1, H400<br>Aquatic Longterm 1, H410 | 2, 8 |

2 - Substance with Community workplace exposure limits

8 - Present at concentration below the cut-off limits.

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

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | 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. |
| <b>Eye contact</b>  | If product enters eyes, rinse eyes gently with water as a precaution.  |
| <b>Skin contact</b> | In case of skin contact, rinse with water as a precaution.   |
| <b>Ingestion</b>    | 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.

### Section 5 Firefighting measures

- 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.

#### 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. Universal precautions should be followed during clean up procedures.  
Wear protective gloves, protective clothing and 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.  
Dispose of contents/container in accordance with local regulations

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### Section 6 Accidental release measures (Continued)

#### 6.3 Methods and material for containment and cleaning up

##### Spill and leak procedures

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.

#### 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.

#### 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

None established

##### ACGIH

Sodium Azide  
CAS # 26628-22-8

0.29 mg/m<sup>3</sup> Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)

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

None established

##### DFG MAK

Sodium Azide  
CAS # 26628-22-8

0.4 mg/m<sup>3</sup> Peak (inhalable fraction); 0.2 mg/m<sup>3</sup> TWA MAK (inhalable fraction)

##### Ireland

Sodium Azide  
CAS # 26628-22-8

0.1 mg/m<sup>3</sup> TWA; 0.3 mg/m<sup>3</sup> STEL; Potential for cutaneous absorption

##### IOELVs

Sodium Azide  
CAS # 26628-22-8

Possibility of significant uptake through the skin; 0.1 mg/m<sup>3</sup> TWA; 0.3 mg/m<sup>3</sup> STEL

##### NIOSH

None established

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

#### China

Sodium Azide 0.3 mg/m<sup>3</sup> Ceiling MAC  
CAS # 26628-22-8

#### Croatia

Sodium Azide Skin Notation; 0.1 mg/m<sup>3</sup> TWA [GVI]; 0.3 mg/m<sup>3</sup> STEL [KGVI]  
CAS # 26628-22-8

#### Japan

None established

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

Sodium Azide 0.1 mg/m<sup>3</sup> TLV NGV; 0.3 mg/m<sup>3</sup> Binding STEL Bindande KGV  
CAS # 26628-22-8

#### Turkey

Sodium Azide 0.3 mg/m<sup>3</sup> STEL; Skin notation; 0.1 mg/m<sup>3</sup> TWA  
CAS # 26628-22-8

### 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>                   | 1.02 @20°C     |
| <b>Color</b>  | Colorless to pale yellow | <b>Solubility</b>  |                |
| <b>Odor</b>   | Odorless                 | <b>Water</b>   | Miscible       |
| <b>pH</b>   | 8.7                      | <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 |

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

|   |  |                |
|---|--|----------------|
|   | <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                             |                |
| <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> | Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. |
| <b>10.4 Conditions to avoid</b>                | Avoid contact with incompatible materials.<br>Avoid exposure to heat and direct sunlight.   |
| <b>10.5 Incompatible materials</b>             | Metals and metallic compounds   |
| <b>10.6 Hazardous decomposition products</b>   | When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.   |

### Section 11 Toxicological information

|  |  |
|--|--|
| <b>11.1 Information on hazard classes</b>      |  |
| <b>Toxicity data for hazardous ingredients</b> |  |
| Sodium Azide<br>CAS # 26628-22-8               | Dermal LD50 Rabbit 20 mg/kg (NLM_HSDB); Inhalation LC50 Rat 0.054 - 0.52 mg/L 4 h (dust)(ECHA_API); Oral LD50 Rat 27 mg/kg (NZ_CCID)   |
| <b>Primary routes of exposure</b>              | 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. |
| <b>Acute toxicity</b>                          | Not classified based on available data.  |
| <b>Skin corrosion/irritation</b>               | Not classified based on available data.  |

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### Section 11 Toxicological information (Continued)

|  |   |
|--|---|
| <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.   |
| <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.   |
| <b>11.2 Information on other hazards</b>                         |   |
| <b>Endocrine disrupting properties</b>                           | This product does not have substance(s) of endocrine disrupting properties for health according to REACH Article 57(f).             |
| <b>Other information</b>   | This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases. |

### Section 12 Ecological information

|  |   |
|--|---|
| <b>12.1 Toxicity</b>                           |   |
| <b>Fresh water species</b>                     |   |
| Sodium Azide<br>CAS # 26628-22-8               | LC50 96 h Oncorhynchus mykiss: 0.8 mg/L; LC50 96 h Lepomis macrochirus: 0.7 mg/L; LC50 96 h Pimephales promelas: 5.46 mg/L [flow-through] |
| <b>Microtox/organisms</b>                      | No information available.   |
| <b>Water flea</b>                              | No information available.   |
| <b>Fresh water algae</b>                       | No information available.   |
| <b>12.2 Persistence and degradability</b>      | Not determined for the product.   |
| <b>12.3 Bioaccumulative potential</b>          | Not determined for the product.   |
| <b>12.4 Mobility in soil</b>                   | Not determined for the product.   |
| <b>12.5 Results of PBT and vPvB assessment</b> | 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

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

### 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 approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76). To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

##### 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

### 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

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### 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 # 26628-22-8      Sodium Azide      1.0% de minimis concentration

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

CAS # 26628-22-8      Sodium Azide

##### **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 # 26628-22-8      Sodium Azide

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

CAS # 26628-22-8      Sodium Azide

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

CAS # 26628-22-8      Sodium Azide

##### **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.



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### Section 15 Regulatory information (Continued)

#### 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

CAS # 26628-22-8 Sodium Azide

#### 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><br><b>Health: 1</b><br><b>Reactivity with water: 0</b><br><b>Physical contact: 1</b> | <b>Code</b><br>0=None<br>1=Slight<br>2=Caution<br>3=Severe |
| <b>Revision changes</b>                         | Updated sections 1, 2, 3, 4, 8 and 15   |  |
| <b>Document version and issue/revision date</b> | Revision Date (year/month/day) 2023/12/22<br>Last Revision Date (year/month/day) 2023/05/28                 |  |

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### Section 16 Other information (Continued)

#### Hazard Classification Procedure

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

#### Description of hazard class and hazard statements from Section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

EUH032 - Contact with acids liberates very toxic gas.

H300 - Fatal if swallowed.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

#### 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

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### Section 16 Other information (Continued)

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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