

## Kit SDS Cover Sheet

Document ID: A73818-75: Version AR  
Revision Date (year/month/day) 2025/11/05  
Last Revision Date (year/month/day) 2025/02/12

### Product information

<b>Product name</b>	AMH Gen II ELISA
<b>Part number</b>	A73818
<b>Additional product information</b>	For Research Use Only. See product literature for details.

### Components

<b>Description</b>	<p>AMH Gen II Assay Buffer  AMH Gen II Biotin Conjugate  AMH Gen II Streptavidin Conjugate  AMH Gen II Sample Diluent  Stopping Solution A  TMB Solution  Wash Concentrate I for lots without "CZ" only  Wash Solution (20X) for "CZ" lot only</p>
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### Transport information

Shipping information	IATA	IMDG	US DOT	European ADR	Canadian TDG
<b>UN/ID number</b>	3316	3316	3316	3316	3316
<b>UN proper shipping name</b>	Chemical kits				
<b>Transport hazard class(es)</b>	9 Miscellaneous Dangerous Goods	9 Miscellaneous dangerous substances and articles	9 Miscellaneous hazardous material	9 Miscellaneous dangerous substances and articles	9 Miscellaneous Dangerous Goods
<b>Subsidiary risk</b>	None	None	None	None	None
<b>Classification code</b>	Not applicable	Not applicable	Not applicable	M11	Not applicable
<b>Packing group</b>	II	II	II	II	II
<b>Special provisions</b>	A44; A163	251; 340	15	251, 340, 671	65, 141
<b>Additional information</b>					
<b>IATA ERG code</b>	9L	Not applicable	Not applicable	Not applicable	Not applicable
<b>EmS</b>	Not applicable	F-A, S-P	Not applicable	Not applicable	Not applicable
<b>NAERG code</b>	Not applicable	Not applicable	171	Not applicable	171
<b>Environmental hazards</b>					
<b>Marine pollutant</b>	Not applicable	No	Not applicable	Not applicable	Not applicable

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## Transport information (Continued)

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### Special precautions for user

No special precautions for users are required.



## 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** AMH Gen II Assay Buffer  
**Part number** Component of P/N A73818

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

**Product use** For Research Use Only.

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

##### Manufacturer

Manufactured by  
 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.  
 Amersham Place  
 Little Chalfont  
 Buckinghamshire  
 United Kingdom, HP7 9NA  
 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)

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

Beckman Coulter Ireland Inc.  
 Lismeehan  
 O'Callaghan's Mills  
 Co. Clare  
 Ireland  
 Tel: 353 (0)65 6831100

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

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

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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

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**2.1 Classification of the substance or mixture**

**Product description** Mixture  
Colorless; Liquid; Odorless

**Classification according to EC 1272/2008 (CLP/GHS)**  
Skin Sensitization Category 1, H317  
Aquatic Hazard Long term, Category 3, H412

**Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**  
Aquatic Hazard Acute, Category 3  
Aquatic Hazard Long term, Category 3

## Section 2 Hazards identification (Continued)

### 2.2 Label elements

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

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and  
2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1)

#### Pictogram



#### Signal word

WARNING

#### Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing and eye/face protection.

##### Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before use.

##### Storage

None

##### Disposal

P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

### 2.3 Other hazards

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.

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

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

# SAFETY DATA SHEET

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## Section 3 Composition and information on ingredients (Continued)

Chemical name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Sodium Azide CAS # 26628-22-8 EINECS # 247-852-1 Index # 011-004-00-7	< 0.1	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 EUH032  Acute Toxicity Estimates (ATE) ATE Oral = 27 mg/kg	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	2, 8
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1) CAS # 55965-84-9 EINECS # Not available Index # 613-167-00-5	< 0.05	Acute Tox. Dermal 2, H310 Acute Tox. Inhal. 2, H330 Acute Tox. Oral 3, H301 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 Eye Dam. 1, H318 M-factor Acute=100 M-factor Chronic=100 Skin Corr. 1C, H314 Skin Sens. 1A, H317 EUH071  Specific Concentration Limit (SCL) Skin Irrit. 2 H315 >= 0.06% - < 0.6% Eye Dam. 1 H318 >= 0.6% Skin Corr. 1C H314 >= 0.6% Eye Irrit. 2 H319 >= 0.06% - < 0.6% Skin Sens. 1A H317 >= 0.0015%  Acute Toxicity Estimates (ATE) ATE Dermal = 87.12 mg/kg ATE Inhalation - Vapors = 0.5 mg/L ATE Oral = 53 mg/kg	Acute Tox. Dermal 2, H310 Acute Tox. Inhal. 2, H330 Acute Tox. Oral 3, H301 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 Eye Dam. 1, H318 Skin Corr. 1C, H314 Skin Sens. 1A, H317	9

2 - Substance with Community workplace exposure limits

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

9 - Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6] (3:1) is the active ingredient of ProClin 300.

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

## 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.

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### Section 4 First aid measures (Continued)

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- 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**  
May cause an allergic skin reaction.  
See Section 11 Toxicological Information for more detailed health information.
- 4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available. Refer to Section 4.1.

### Section 5 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

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- 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
- 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

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- 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)

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### 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.

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## Section 8 Exposure controls and personal protection

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### 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

##### China

Sodium Azide  
CAS # 26628-22-8

0.3 mg/m<sup>3</sup> Ceiling MAC

##### Croatia

Sodium Azide  
CAS # 26628-22-8

Skin Notation; 0.1 mg/m<sup>3</sup> TWA [GVI]; 0.3 mg/m<sup>3</sup> STEL [KGVI]

##### Japan

None established

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

Sodium Azide  
CAS # 26628-22-8

0.1 mg/m<sup>3</sup> TLV NGV; 0.3 mg/m<sup>3</sup> Binding STEL Bindande KGV

##### Turkey

Sodium Azide  
CAS # 26628-22-8

0.3 mg/m<sup>3</sup> STEL; Skin notation; 0.1 mg/m<sup>3</sup> TWA

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

### 8.2 Exposure controls

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

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Density and/or relative density</b>	≈ 1
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	7.5	<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.

## Section 9 Physical and chemical properties (Continued)

### 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)

reaction mass of: 5-chloro-  
2-methyl-4-isothiazolin  
-3-one [EC# 247-500-7] and  
2-methyl-4-isothiazolin-3-one [EC#  
220-239-6](3:1)  
CAS # 55965-84-9

Dermal LD50 Rabbit 87.12 mg/kg (ECHA\_API); Oral LD50 Rat 53 mg/kg (NLM\_CIP)

- 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** May cause an allergic skin reaction.
- Germ cell mutagenicity** Not classified based on available data.

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## Section 11 Toxicological information (Continued)

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<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

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

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## Section 12 Ecological information

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### 12.1 Toxicity

#### Fresh water species

Sodium Azide  
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]

#### 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.

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## Section 12 Ecological information (Continued)

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### 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

Harmful to aquatic life with long lasting effects.

This product is classified as environmentally hazardous. Do not allow undiluted product to enter sewer/surface or ground water. Dispose of contents/container to in accordance with local/national regulations

## Section 13 Disposal considerations

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### 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.

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.

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.

#### 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

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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.

**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

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### 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.

##### **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.

## Section 15 Regulatory information (Continued)

### 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.

### UK Regulations

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

Refer to Section 3

### Canada

This product does not meet WHMIS criteria for hazardous materials.

### 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

#### Türkiye-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: 2</b> <b>Reactivity with water: 0</b> <b>Physical contact: 2</b>	Code 0=None 1=Slight 2=Caution 3=Severe
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### Revision changes

Update supplier addresses in Section 1.3

### Document version and issue/revision date

Revision Date (year/month/day) 2025/11/05

## Section 16 Other information (Continued)

Last Revision Date (year/month/day) 2025/02/12

Document ID: A73818-75

Version: AR

### 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.

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

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

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

Acute Tox. Inhal. 2 - Acute Toxicity Inhalation, Category 2

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

Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3

Eye Dam. 1 - Eye Damage Category 1

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

Skin Corr. 1C - Skin Corrosion Category 1C

Skin Sens. 1A - Skin Sensitization Category 1A

EUH032 - Contact with acids liberates very toxic gas.

EUH071 - Corrosive to the respiratory tract.

H300 - Fatal if swallowed.

H301 - Toxic if swallowed.

H310 - Fatal in contact with skin.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H330 - Fatal if inhaled.

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

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

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## SAFETY DATA SHEET

Document ID: A73818-75 Version AR  
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 Last Revision Date (year/month/day) 2025/02/12

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

#### 1.1 Product identifier

**Product name** AMH Gen II Biotin Conjugate

**Part number** Component of P/N A73818

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

**Product use** For Research Use Only.

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

##### Manufacturer

Manufactured by  
 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.  
 Amersham Place  
 Little Chalfont  
 Buckinghamshire  
 United Kingdom, HP7 9NA  
 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)

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

Beckman Coulter Ireland Inc.  
 Lismeehan  
 O'Callaghan's Mills  
 Co. Clare  
 Ireland  
 Tel: 353 (0)65 6831100

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

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

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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  
Colorless; Liquid; Odorless

**Classification according to EC 1272/2008 (CLP/GHS)**  
Skin Sensitization Category 1, H317  
Aquatic Hazard Long term, Category 3, H412

**Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**  
Aquatic Hazard Acute, Category 3  
Aquatic Hazard Long term, Category 3

## Section 2 Hazards identification (Continued)

### 2.2 Label elements

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

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and  
2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1)

#### Pictogram



#### Signal word

WARNING

#### Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing and eye/face protection.

##### Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before use.

##### Storage

None

##### Disposal

P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

### 2.3 Other hazards

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.

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

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

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## Section 3 Composition and information on ingredients (Continued)

Chemical name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Sodium Azide CAS # 26628-22-8 EINECS # 247-852-1 Index # 011-004-00-7	< 0.1	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 EUH032  Acute Toxicity Estimates (ATE) ATE Oral = 27 mg/kg	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	2, 8
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1) CAS # 55965-84-9 EINECS # Not available Index # 613-167-00-5	< 0.05	Acute Tox. Dermal 2, H310 Acute Tox. Inhal. 2, H330 Acute Tox. Oral 3, H301 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 Eye Dam. 1, H318 M-factor Acute=100 M-factor Chronic=100 Skin Corr. 1C, H314 Skin Sens. 1A, H317 EUH071  Specific Concentration Limit (SCL) Skin Irrit. 2 H315 >= 0.06% - < 0.6% Eye Dam. 1 H318 >= 0.6% Skin Corr. 1C H314 >= 0.6% Eye Irrit. 2 H319 >= 0.06% - < 0.6% Skin Sens. 1A H317 >= 0.0015%  Acute Toxicity Estimates (ATE) ATE Dermal = 87.12 mg/kg ATE Inhalation - Vapors = 0.5 mg/L ATE Oral = 53 mg/kg	Acute Tox. Dermal 2, H310 Acute Tox. Inhal. 2, H330 Acute Tox. Oral 3, H301 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 Eye Dam. 1, H318 Skin Corr. 1C, H314 Skin Sens. 1A, H317	9

2 - Substance with Community workplace exposure limits

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

9 - Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6] (3:1) is the active ingredient of ProClin 300.

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

## 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.

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### Section 4 First aid measures (Continued)

- 
- 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**  
May cause an allergic skin reaction.  
See Section 11 Toxicological Information for more detailed health information.
- 4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available. Refer to Section 4.1.

### Section 5 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
- 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.

## Section 7 Handling and storage (Continued)

### 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

##### China

Sodium Azide  
CAS # 26628-22-8

0.3 mg/m<sup>3</sup> Ceiling MAC

##### Croatia

Sodium Azide  
CAS # 26628-22-8

Skin Notation; 0.1 mg/m<sup>3</sup> TWA [GVI]; 0.3 mg/m<sup>3</sup> STEL [KGVI]

##### Japan

None established

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

Sodium Azide  
CAS # 26628-22-8

0.1 mg/m<sup>3</sup> TLV NGV; 0.3 mg/m<sup>3</sup> Binding STEL Bindande KGV

##### Turkey

Sodium Azide  
CAS # 26628-22-8

0.3 mg/m<sup>3</sup> STEL; Skin notation; 0.1 mg/m<sup>3</sup> TWA

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

#### 8.2 Exposure controls

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

### Section 9 Physical and chemical properties

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

<b>Physical state</b>	Liquid	<b>Density and/or relative density</b>	≈ 1.0
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	7.5	<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.

## Section 9 Physical and chemical properties (Continued)

### 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)

reaction mass of: 5-chloro-  
2-methyl-4-isothiazolin  
-3-one [EC# 247-500-7] and  
2-methyl-4-isothiazolin-3-one [EC#  
220-239-6](3:1)  
CAS # 55965-84-9

Dermal LD50 Rabbit 87.12 mg/kg (ECHA\_API); Oral LD50 Rat 53 mg/kg (NLM\_CIP)

- 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** May cause an allergic skin reaction.
- Germ cell mutagenicity** Not classified based on available data.

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### Section 11 Toxicological information (Continued)

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<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

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

### Section 12 Ecological information

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#### 12.1 Toxicity

##### Fresh water species

Sodium Azide  
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]

##### 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.

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## Section 12 Ecological information (Continued)

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### 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

Harmful to aquatic life with long lasting effects.

This product is classified as environmentally hazardous. Do not allow undiluted product to enter sewer/surface or ground water. Dispose of contents/container to in accordance with local/national regulations

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## Section 13 Disposal considerations

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### 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.

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.

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.

#### 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.

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## Section 14 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.

**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)**

CAS # 26628-22-8	Sodium Azide	1.0% de minimis concentration
CAS # 139-13-9	glycine,N,N-bis(carboxymethyl)	0.1% de minimis concentration

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

CAS # 7558-79-4	Sodium Phosphate, Dibasic
CAS # 26628-22-8	Sodium Azide

##### **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 # 139-13-9	glycine,N,N-bis(carboxymethyl)
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##### **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 # 7558-79-4	Sodium Phosphate, Dibasic
CAS # 26628-22-8	Sodium Azide
CAS # 139-13-9	glycine,N,N-bis(carboxymethyl)

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

CAS # 7558-79-4	Sodium Phosphate, Dibasic
CAS # 26628-22-8	Sodium Azide
CAS # 139-13-9	glycine,N,N-bis(carboxymethyl)

## Section 15 Regulatory information (Continued)

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

CAS # 7558-79-4	Sodium Phosphate, Dibasic
CAS # 26628-22-8	Sodium Azide
CAS # 139-13-9	glycine,N,N- bis(carboxymethyl)

### **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.

### **UK Regulations**

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

Refer to Section 3

### **Canada**

This product does not meet WHMIS criteria for hazardous materials.

### **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**

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

No ingredients listed.

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## Section 15 Regulatory information (Continued)

### 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: 2</b> <b>Reactivity with water: 0</b> <b>Physical contact: 2</b>	Code 0=None 1=Slight 2=Caution 3=Severe
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**Revision changes** Update supplier addresses in Section 1.3

#### Document version and issue/revision date

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Version: AR

**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.

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

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1  
Acute Tox. Dermal 2 - Acute Toxicity Dermal, Category 2  
Acute Tox. Inhal. 2 - Acute Toxicity Inhalation, Category 2  
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2  
Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3  
Eye Dam. 1 - Eye Damage Category 1  
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1  
Skin Corr. 1C - Skin Corrosion Category 1C  
Skin Sens. 1A - Skin Sensitization Category 1A  
EUH032 - Contact with acids liberates very toxic gas.  
EUH071 - Corrosive to the respiratory tract.  
H300 - Fatal if swallowed.  
H301 - Toxic if swallowed.  
H310 - Fatal in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H330 - Fatal if inhaled.

## Section 16 Other information (Continued)

### Abbreviations and acronyms

H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.  
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)**

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

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

#### 1.1 Product identifier

**Product name** AMH Gen II Streptavidin Conjugate

**Part number** Component of P/N A73818

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

**Product use** For Research Use Only.

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

##### Manufacturer

Manufactured by  
 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.  
 Amersham Place  
 Little Chalfont  
 Buckinghamshire  
 United Kingdom, HP7 9NA  
 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)

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

Beckman Coulter Ireland Inc.  
 Lismeehan  
 O'Callaghan's Mills  
 Co. Clare  
 Ireland  
 Tel: 353 (0)65 6831100

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

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

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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

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**2.1 Classification of the substance or mixture**

**Product description**

Mixture  
Orange to pink; Liquid; Odorless

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

Flammable Liquids, Category 3, H226  
Acute Toxicity Oral, Category 4, H302  
Specific Target Organ Toxicity Single Exposure Category 2, H371

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

Flammable Liquids, Category 3  
Acute Toxicity Oral, Category 4  
Acute Toxicity Dermal, Category 5  
Specific Target Organ Toxicity Single Exposure Category 1

## Section 2 Hazards identification (Continued)

### 2.2 Label elements

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

Methanol

#### Pictogram



#### Signal word

DANGER

#### Hazard statements

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H313 May be harmful in contact with skin
- H370 Causes damage to organs.

#### Precautionary statements

##### Prevention

- P210 Keep away from heat, hot surfaces, and sparks. No smoking.
- P233 Keep container tightly closed.
- P240 Ground container and receiving equipment.
- P241 Use explosion-proof electrical equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharge.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves, protective clothing and eye/face protection.

##### Response

- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.
- P308+P311 If exposed or concerned: Call a doctor/physician.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P370+P378 In case of fire: Use water spray for extinction.

##### Storage

- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

##### Disposal

- P501 Dispose of contents/container in accordance with local/national regulations
- Product label will display most significant precautionary statements.

### 2.3 Other hazards

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

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

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## Section 3 Composition and information on ingredients

### 3.2 Mixtures

Hazardous ingredients:		Hazard classification of pure ingredients		
Chemical name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Methanol CAS # 67-56-1 EINECS # 200-659-6 Index # 603-001-00-X	1 - 9	Acute Tox. Dermal 3, H311 Acute Tox. Inhal. 3, H331 Acute Tox. Oral 3, H301 Flam. Liq. 2, H225 STOT SE 1, H370  Specific Concentration Limit (SCL) STOT SE 1 H370 >= 10% STOT SE 2 H371 >= 3% - < 10%  Acute Toxicity Estimates (ATE) ATE Dermal = 300 mg/kg ATE Inhalation - Vapors = 3 mg/L ATE Oral = 100 mg/kg	Acute Tox. Dermal 3, H311 Acute Tox. Inhal. 3, H331 Acute Tox. Oral 3, H301 Flam. Liq. 2, H225 STOT SE 1, H370	REST
Magnesium CAS # 7439-95-4 EINECS # 231-104-6 Index # 012-001-00-3	< 0.01	Flam. Sol. 1, H228 Self-heat. 2, H252 Water-react. 2, H261	Flam. Sol. 1, H228 Self-heat. 2, H252 Water-react. 2, H261	2, 8
Iron CAS # 7439-89-6 EINECS # 231-096-4 Index # Not available	< 0.01	Flam. Sol. 1, H228	Flam. Sol. 1, H228	2, 8

2 - Substance with Community workplace exposure limits

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

REST - Subject to Restriction as per Annex XVII of REACH Regulation (EC) No 1907/2006

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

## 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. Do not induce vomiting or give anything by mouth. Obtain medical attention immediately.

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### Section 4 First aid measures (Continued)

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

Harmful if swallowed.  
May be harmful in contact with skin  
Causes damage to organs.  
See Section 11 Toxicological Information for more detailed health information.

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

No further relevant information available. Refer to Section 4.1.

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### Section 5 Firefighting measures

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#### 5.1 Extinguishing media

In case of fire, use Class B fire extinguishers.  
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

Flammable liquid and vapour.

#### 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.

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### Section 6 Accidental release measures

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#### 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 or evaporation.  
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

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

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#### 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.

## Section 7 Handling and storage (Continued)

### 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

Methanol  
CAS # 67-56-1 200 ppm TWA; 260 mg/m<sup>3</sup> TWA

##### ACGIH

Methanol  
CAS # 67-56-1 250 ppm STEL; 200 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route

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

Methanol  
CAS # 67-56-1 15 mg/L medium: urine time: end of shift parameter: Methanol (background, nonspecific)

##### DFG MAK

Methanol  
CAS # 67-56-1 200 ppm Peak; 260 mg/m<sup>3</sup> Peak; skin notation; 100 ppm TWA MAK; 130 mg/m<sup>3</sup> TWA MAK

##### Ireland

Methanol  
CAS # 67-56-1 200 ppm TWA; 260 mg/m<sup>3</sup> TWA; 600 ppm STEL (calculated); 780 mg/m<sup>3</sup> STEL (calculated); Potential for cutaneous absorption

##### IOELVs

Methanol  
CAS # 67-56-1 Possibility of significant uptake through the skin; 200 ppm TWA; 260 mg/m<sup>3</sup> TWA

##### NIOSH

Methanol  
CAS # 67-56-1 6000 ppm IDLH; 250 ppm STEL; 325 mg/m<sup>3</sup> STEL; 200 ppm TWA; 260 mg/m<sup>3</sup> TWA

##### China

Methanol  
CAS # 67-56-1 50 mg/m<sup>3</sup> STEL; Skin notation; 25 mg/m<sup>3</sup> TWA

##### Croatia

Butylated Hydroxytoluene  
CAS # 128-37-0 10 mg/m<sup>3</sup> TWA [GVI]

Methanol  
CAS # 67-56-1 Skin Notation; 200 ppm TWA [GVI]; 260 mg/m<sup>3</sup> TWA [GVI]

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

#### Japan

Methanol 200 ppm OEL; 260 mg/m<sup>3</sup> OEL  
CAS # 67-56-1

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

Methanol 200 ppm TLV NGV; 250 mg/m<sup>3</sup> TLV NGV; 250 ppm Indicative STEL Vägledande  
CAS # 67-56-1 KGV; 350 mg/m<sup>3</sup> Indicative STEL Vägledande KGV; Skin notation

#### Turkey

Methanol Skin notation; 200 ppm TWA; 260 mg/m<sup>3</sup> TWA  
CAS # 67-56-1

### 8.2 Exposure controls

#### Engineering controls

No special engineering controls are required. Use with good general ventilation.

#### Eye protection

Safety glasses or chemical goggles should be worn to prevent eye contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

#### Skin protection

Wear impervious gloves such as Nitrile or equivalent and protective clothing. Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN 14605:2005+A1:2009 or appropriate government standards.

#### Respiratory protection

Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

### Section 9 Physical and chemical properties

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

<b>Physical state</b>	Liquid	<b>Density and/or relative density</b>	≈ 1
<b>Color</b>	Orange to pink	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	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 determined
<b>Flash point</b>	58.33°C (136.994°F)	<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)

**Lower and upper explosion limit** Not determined

**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

No further relevant information available.

#### 10.4 Conditions to avoid

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

Avoid exposure to heat and direct sunlight.

**10.5 Incompatible materials** No further relevant information available.

#### 10.6 Hazardous decomposition products

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

### Section 11 Toxicological information

#### 11.1 Information on hazard classes

##### Toxicity data for hazardous ingredients

Magnesium  
CAS # 7439-95-4  
Oral LD50 Rat 230 mg/kg (IUCLID)

Methanol  
CAS # 67-56-1  
Dermal LD50 Rabbit 15840 mg/kg (NLM\_HSDB); Inhalation LC50 Rat 22500 ppm 8 h (JAPAN\_GHS); Oral LD50 Rat 6200 mg/kg (JAPAN\_GHS)

Iron  
CAS # 7439-89-6  
Oral LD50 Rat 30 g/kg (NLM\_CIP)

##### 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

Harmful if swallowed.  
May be harmful in contact with skin

##### 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>	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>	Causes damage to organs.
<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>	
Methanol CAS # 67-56-1	LC50 96 h Pimephales promelas: 28200 mg/L [flow-through] (EPA); LC50 96 h Pimephales promelas: >100 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss: 19500 - 20700 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss: 18 - 20 mL/L [static] (EPA); LC50 96 h Lepomis macrochirus: 13500 - 17600 mg/L [flow-through] (EPA)
<b>Microtox/organisms</b>	
Methanol CAS # 67-56-1	LC50 48 h Eisenia foetida >1 mg/cm <sup>2</sup> [filter paper](IUCLID)
<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

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 06\* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

## Section 14 Transport information

Shipping information	IATA	IMDG	US DOT	European ADR	Canadian TDG
<b>14.1 UN/ID number</b>	1987	1987	1987	1987	PIN - 1987
<b>14.2 UN proper shipping name</b>	Alcohols, n.o.s. (Methanol solution)				
<b>14.3 Transport hazard class(es)</b>	3 Flammable Liquids	3 Flammable liquids	3 Flammable liquid	3 Flammable Liquids	3 Flammable Liquids
<b>Subsidiary risk</b>	None	None	None	None	None
<b>Classification code</b>	Not applicable	Not applicable	Not applicable	F1	Not applicable
<b>14.4 Packing group</b>	III	III	III	III	III
<b>Special provisions</b>	A3; A180	223, 274	172	274, 601	16, 150
<b>Additional information</b>					
<b>IATA ERG code</b>	3L	Not applicable	Not applicable	Not applicable	Not applicable
<b>EmS</b>	Not applicable	F-E, S-D	Not applicable	Not applicable	Not applicable
<b>NAERG code</b>	Not applicable	Not applicable	127	Not applicable	127

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## Section 14 Transport information (Continued)

### 14.5 Environmental hazards

<b>Marine pollutant</b>	Not applicable	No	Not applicable	Not applicable	Not applicable
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### 14.6 Special precautions for user

Warning: Flammable liquid.

### 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)**

CAS # 67-56-1	Methanol	1.0% de minimis concentration
---------------	----------	-------------------------------

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

CAS # 67-56-1	Methanol
---------------	----------

##### **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**

No ingredients listed.

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

CAS # 67-56-1	Methanol
---------------	----------

##### **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 # 128-37-0	Butylated Hydroxytoluene
CAS # 67-56-1	Methanol

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

CAS # 128-37-0	Butylated Hydroxytoluene
CAS # 67-56-1	Methanol

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## Section 15 Regulatory information (Continued)

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

CAS # 128-37-0	Butylated Hydroxytoluene
CAS # 67-56-1	Methanol

### **EU Regulations**

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

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

WGK 2, 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**

CAS # 67-56-1	Methanol	Entry No.: 69; 75
---------------	----------	-------------------

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

No ingredients listed.

### **UK Regulations**

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

Refer to Section 3

### **Canada**

This product meets WHMIS criteria for hazardous materials

### **China**

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

CAS # 67-56-1	Methanol
---------------	----------

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

All ingredients are listed or exempted.

### **Turkey**

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

No ingredients listed.

### **International**

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### Section 15 Regulatory information (Continued)

#### 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: 2</b> <b>Health: 3</b> <b>Reactivity with water: 0</b> <b>Physical contact: 3</b>	Code 0=None 1=Slight 2=Caution 3=Severe
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**Revision changes** Update supplier addresses in Section 1.3

#### Document version and issue/revision date

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**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.

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

Acute Tox. Dermal 3 - Acute Toxicity Dermal, Category 3  
Acute Tox. Inhal. 3 - Acute Toxicity Inhalation, Category 3  
Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3  
Flam. Liq. 2 - Flammable Liquids, Category 2  
Flam. Sol. 1 - Flammable Solids, Category 1  
Self-heat. 2 - Self-Heating Substances and Mixtures, Category 2  
STOT SE 1 - Specific Target Organ Toxicity Single Exposure Category 1  
Water-react. 2 - Water-Reactive Substances, Category 2  
H225 - Highly flammable liquid and vapour.  
H228 - Flammable solid.  
H252 - Self-heating in large quantities; may catch fire.  
H261 - In contact with water releases flammable gases.  
H301 - Toxic if swallowed.  
H311 - Toxic in contact with skin.  
H331 - Toxic if inhaled.  
H370 - Causes damage to organs.  
H370 - Causes damage to organs (Respiratory system)  
H370 - Causes damage to organs (Liver and Kidney)  
H370 - Causes damage to organs (Kidney)  
H370 - Causes damage to organs (Liver)

## 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

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

#### 1.1 Product identifier

**Product name** AMH Gen II Sample Diluent

**Part number** Component of P/N A73818

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

**Product use** For Research Use Only.

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

##### Manufacturer

Manufactured by  
 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.  
 Amersham Place  
 Little Chalfont  
 Buckinghamshire  
 United Kingdom, HP7 9NA  
 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)

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

Beckman Coulter Ireland Inc.  
 Lismeehan  
 O'Callaghan's Mills  
 Co. Clare  
 Ireland  
 Tel: 353 (0)65 6831100

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

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

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  
Colorless; Liquid; Odorless

**Classification according to EC 1272/2008 (CLP/GHS)**  
Skin Sensitization Category 1, H317  
Aquatic Hazard Long term, Category 3, H412

**Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**  
Aquatic Hazard Acute, Category 3  
Aquatic Hazard Long term, Category 3

## Section 2 Hazards identification (Continued)

### 2.2 Label elements

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

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1)

#### Pictogram



#### Signal word

WARNING

#### Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing and eye/face protection.

##### Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before use.

##### Storage

None

##### Disposal

P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

### 2.3 Other hazards

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.

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

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
------------------------	---

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## Section 3 Composition and information on ingredients (Continued)

Chemical name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Sodium Azide CAS # 26628-22-8 EINECS # 247-852-1 Index # 011-004-00-7	< 0.1	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 EUH032  Acute Toxicity Estimates (ATE) ATE Oral = 27 mg/kg	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	2, 8
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1) CAS # 55965-84-9 EINECS # Not available Index # 613-167-00-5	< 0.05	Acute Tox. Dermal 2, H310 Acute Tox. Inhal. 2, H330 Acute Tox. Oral 3, H301 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 Eye Dam. 1, H318 M-factor Acute=100 M-factor Chronic=100 Skin Corr. 1C, H314 Skin Sens. 1A, H317 EUH071  Specific Concentration Limit (SCL) Skin Irrit. 2 H315 >= 0.06% - < 0.6% Eye Dam. 1 H318 >= 0.6% Skin Corr. 1C H314 >= 0.6% Eye Irrit. 2 H319 >= 0.06% - < 0.6% Skin Sens. 1A H317 >= 0.0015%  Acute Toxicity Estimates (ATE) ATE Dermal = 87.12 mg/kg ATE Inhalation - Vapors = 0.5 mg/L ATE Oral = 53 mg/kg	Acute Tox. Dermal 2, H310 Acute Tox. Inhal. 2, H330 Acute Tox. Oral 3, H301 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 Eye Dam. 1, H318 Skin Corr. 1C, H314 Skin Sens. 1A, H317	9

2 - Substance with Community workplace exposure limits

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

9 - Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6] (3:1) is the active ingredient of ProClin 300.

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

## 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.

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### Section 4 First aid measures (Continued)

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- 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**  
May cause an allergic skin reaction.  
See Section 11 Toxicological Information for more detailed health information.
- 4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available. Refer to Section 4.1.

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### 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.

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### Section 6 Accidental release measures

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- 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
- 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

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- 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)

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### 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

##### China

Sodium Azide  
CAS # 26628-22-8

0.3 mg/m<sup>3</sup> Ceiling MAC

##### Croatia

Sodium Azide  
CAS # 26628-22-8

Skin Notation; 0.1 mg/m<sup>3</sup> TWA [GVI]; 0.3 mg/m<sup>3</sup> STEL [KGVI]

##### Japan

None established

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

Sodium Azide  
CAS # 26628-22-8

0.1 mg/m<sup>3</sup> TLV NGV; 0.3 mg/m<sup>3</sup> Binding STEL Bindande KGV

##### Turkey

Sodium Azide  
CAS # 26628-22-8

0.3 mg/m<sup>3</sup> STEL; Skin notation; 0.1 mg/m<sup>3</sup> TWA

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

### 8.2 Exposure controls

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

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Density and/or relative density</b>	≈ 1
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	6.6	<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
<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.

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

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#### Other safety characteristics

No further relevant information available.

### Section 10 Stability and reactivity

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- 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)

reaction mass of: 5-chloro-  
2-methyl-4-isothiazolin  
-3-one [EC# 247-500-7] and  
2-methyl-4-isothiazolin-3-one [EC#  
220-239-6](3:1)  
CAS # 55965-84-9

Dermal LD50 Rabbit 87.12 mg/kg (ECHA\_API); Oral LD50 Rat 53 mg/kg (NLM\_CIP)

- 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** May cause an allergic skin reaction.
- Germ cell mutagenicity** 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

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

### Section 12 Ecological information

#### 12.1 Toxicity

##### Fresh water species

Sodium Azide  
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]

##### 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.

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### Section 12 Ecological information (Continued)

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#### 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

Harmful to aquatic life with long lasting effects.

This product is classified as environmentally hazardous. Do not allow undiluted product to enter sewer/surface or ground water. Dispose of contents/container to in accordance with local/national regulations

### 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.

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.

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 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

## 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 # 100-51-6 Benzyl Alcohol

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 # 100-51-6 Benzyl Alcohol

CAS # 26628-22-8 Sodium Azide

##### **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.

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## Section 15 Regulatory information (Continued)

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### **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.

### **UK Regulations**

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

Refer to Section 3

### **Canada**

This product does not meet WHMIS criteria for hazardous materials.

### **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**

#### **Türkiye-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.*

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### Section 16 Other information

<b>Beckman Coulter safety rating</b>	<b>Flammability: 0</b> <b>Health: 2</b> <b>Reactivity with water: 0</b> <b>Physical contact: 2</b>	Code 0=None 1=Slight 2=Caution 3=Severe
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**Revision changes** Update supplier addresses in Section 1.3

#### Document version and issue/revision date

Revision Date (year/month/day) 2025/11/05  
Last Revision Date (year/month/day) 2025/02/12  
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Version: AR

#### 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.

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

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1  
Acute Tox. Dermal 2 - Acute Toxicity Dermal, Category 2  
Acute Tox. Inhal. 2 - Acute Toxicity Inhalation, Category 2  
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2  
Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3  
Eye Dam. 1 - Eye Damage Category 1  
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1  
Skin Corr. 1C - Skin Corrosion Category 1C  
Skin Sens. 1A - Skin Sensitization Category 1A  
EUH032 - Contact with acids liberates very toxic gas.  
EUH071 - Corrosive to the respiratory tract.  
H300 - Fatal if swallowed.  
H301 - Toxic if swallowed.  
H310 - Fatal in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H330 - Fatal if inhaled.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

## 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

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

#### 1.1 Product identifier

**Product name** Stopping Solution A  
**Part number** Component of P/N A73818

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

**Product use** For Research Use Only.

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

##### Manufacturer

Manufactured by  
 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.  
 Amersham Place  
 Little Chalfont  
 Buckinghamshire  
 United Kingdom, HP7 9NA  
 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)

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

Beckman Coulter Ireland Inc.  
 Lismeehan  
 O'Callaghan's Mills  
 Co. Clare  
 Ireland  
 Tel: 353 (0)65 6831100

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

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

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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  
Colorless; Liquid; Odorless

**Classification according to EC 1272/2008 (CLP/GHS)**  
Skin Corrosion Category 1, H314  
Eye Damage Category 1, H318

**Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**  
Skin Corrosion Category 1  
Eye Damage Category 1

## Section 2 Hazards identification (Continued)

### 2.2 Label elements

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

Sulfuric Acid

#### Pictogram



#### Signal word

DANGER

#### Hazard statements

H314 Causes severe skin burns and eye damage.

#### Precautionary statements

##### Prevention

P280 Wear protective gloves, protective clothing and eye/face protection.

##### Response

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.

P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse.

##### Storage

P405 Store locked up.

##### Disposal

P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

## Section 3 Composition and information on ingredients

### 3.2 Mixtures

Hazardous ingredients:		Hazard classification of pure ingredients		
Chemical name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note

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## Section 3 Composition and information on ingredients (Continued)

<p>Sulfuric Acid CAS # 7664-93-9 EINECS # 231-639-5 Index # 016-020-00-8</p>	<p>1 - 3</p>	<p>Eye Dam. 1, H318 Skin Corr. 1A, H314  Specific Concentration Limit (SCL) Skin Irrit. 2 H315 &gt;= 5% - &lt; 15% Skin Corr. 1A H314 &gt;= 15% Eye Irrit. 2 H319 &gt;= 5% - &lt; 15%</p>	<p>Eye Dam. 1, H318 Skin Corr. 1A, H314</p>	<p>REST</p>
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REST - Subject to Restriction as per Annex XVII of REACH Regulation (EC) No 1907/2006

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

## Section 4 First aid measures

### 4.1 Description of first aid measures

#### Inhalation

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

#### Eye contact

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

#### Skin contact

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

#### Ingestion

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

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

Causes severe skin burns and eye damage.  
See Section 11 Toxicological Information for more detailed health information.

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

No further relevant information available. Refer to Section 4.1.

## Section 5 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).

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## Section 5 Firefighting measures (Continued)

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### 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.

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## Section 6 Accidental release measures

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

#### Personal precautions

Observe general safety guidelines for protection; avoid eye and skin contact. Wear protective gloves, protective clothing and tightly sealed eye/face protection.

### 6.2 Environmental precautions

Contain spill to prevent migration.  
Do not allow the undiluted product to enter sewers/surface or ground water.

### 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.

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## Section 7 Handling and storage

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**7.1 Precautions for safe handling** Use good laboratory procedures; avoid eye and skin contact.

### 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.

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## Section 8 Exposure controls and personal protection

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### 8.1 Control parameters

#### Exposure limits

##### US OSHA

Sulfuric Acid 1 mg/m<sup>3</sup> TWA  
CAS # 7664-93-9

##### ACGIH

Sulfuric Acid 0.2 mg/m<sup>3</sup> TWA (thoracic particulate matter)  
CAS # 7664-93-9

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

None established

##### DFG MAK

Sulfuric Acid 0.1 mg/m<sup>3</sup> Peak (a momentary value of 0.2 mg/m<sup>3</sup> must not be exceeded)  
CAS # 7664-93-9 (inhalable fraction); 0.1 mg/m<sup>3</sup> TWA MAK (inhalable fraction)

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

### Ireland

Sulfuric Acid  
CAS # 7664-93-9 0.05 ppm TWA; 0.15 ppm STEL (calculated)

### IOELVs

Sulfuric Acid  
CAS # 7664-93-9 0.05 mg/m<sup>3</sup> TWA

### NIOSH

Sulfuric Acid  
CAS # 7664-93-9 15 mg/m<sup>3</sup> IDLH; 1 mg/m<sup>3</sup> TWA

### China

Sulfuric Acid  
CAS # 7664-93-9 2 mg/m<sup>3</sup> STEL; 1 mg/m<sup>3</sup> TWA

### Croatia

Sulfuric Acid  
CAS # 7664-93-9 0.05 mg/m<sup>3</sup> TWA [GVI] (when selecting the appropriate exposure monitoring method the potential limitations and disturbances that may occur in the presence of other sulfur compounds should be taken into account) (fog, thoracic fraction)

### Japan

None established

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

Sulfuric Acid  
CAS # 7664-93-9 0.1 mg/m<sup>3</sup> TLV NGV; 0.2 mg/m<sup>3</sup> Indicative STEL Vägledande KGV

### Turkey

Sulfuric Acid  
CAS # 7664-93-9 0.05 mg/m<sup>3</sup> TWA (steam)

## 8.2 Exposure controls

### Engineering controls

No special engineering controls are required. Use with good general ventilation.

### Eye protection

Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

### Skin protection

Wear impervious gloves such as Nitrile or equivalent and protective clothing. Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN 14605:2005+A1:2009 or appropriate government standards.

### Respiratory protection

Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Density and/or relative density</b>	≈ 1.01
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### Section 9 Physical and chemical properties (Continued)

<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	2	<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.
<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

### 11.1 Information on hazard classes

#### Toxicity data for hazardous ingredients

Sulfuric Acid  
CAS # 7664-93-9      Inhalation LC50 Rat 0.375 mg/L 4 h (aerosol)(OECD\_SIDS); Oral LD50 Rat 2140 mg/kg (JAPAN\_GHS)

**Primary routes of exposure**      Eye contact, ingestion, inhalation, and skin contact.

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

**Skin corrosion/irritation**      Causes severe skin burns.

**Serious eye damage/irritation**      Causes serious eye damage.

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

**Germ cell mutagenicity**      Not classified based on available data.

**Carcinogenicity**      Sulfuric Acid is listed with OSHA as a carcinogen; IARC as Group 1 carcinogen to humans; ACGIH as A2 Suspected Human Carcinogen.

**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**      No further relevant information available.

## Section 12 Ecological information

### 12.1 Toxicity

#### **Fresh water species**

Sulfuric Acid  
CAS # 7664-93-9      LC50 96 h Brachydanio rerio: >500 mg/L [static] (IUCLID)

**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.

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## Section 12 Ecological information (Continued)

- 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.
- Additional information** Suggested European waste catalogue 18 01 06\* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

## Section 14 Transport information

Shipping information	IATA	IMDG	US DOT	European ADR	Canadian TDG
<b>14.1 UN/ID number</b>	2796	2796	2796	2796	PIN - 2796
<b>14.2 UN proper shipping name</b>	Sulfuric acid solution				
<b>14.3 Transport hazard class(es)</b>	8 Corrosives	8 Corrosive substances	8 Corrosive material	8 Corrosive substances	8 Corrosives
<b>Subsidiary risk</b>	None	None	None	None	None
<b>Classification code</b>	Not applicable	Not applicable	Not applicable	C1	Not applicable
<b>14.4 Packing group</b>	II	II	II	II	II
<b>Special provisions</b>	None	None	386, A3, A7, N6, N34	None	None
<b>Additional information</b>					
<b>IATA ERG code</b>	8L	Not applicable	Not applicable	Not applicable	Not applicable
<b>EmS</b>	Not applicable	F-A, S-B	Not applicable	Not applicable	Not applicable
<b>NAERG code</b>	Not applicable	Not applicable	157	Not applicable	157

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## Section 14 Transport information (Continued)

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### 14.5 Environmental hazards

<b>Marine pollutant</b>	Not applicable	No	Not applicable	Not applicable	Not applicable
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### 14.6 Special precautions for user

Warning: Corrosive substances.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

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## Section 15 Regulatory information

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### 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 # 7664-93-9	Sulfuric Acid	1.0% de minimis concentration
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##### **CERCLA (The Comprehensive Environmental Response, Compensation, and Liability Act) 40 CFR 302.4**

CAS # 7664-93-9	Sulfuric Acid
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##### **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 # 7664-93-9	Sulfuric Acid
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##### **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 # 7664-93-9	Sulfuric Acid
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##### **New Jersey Dept. of Health Right To Know (RTK) List**

CAS # 7664-93-9	Sulfuric Acid
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## Section 15 Regulatory information (Continued)

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

CAS # 7664-93-9 Sulfuric Acid

### **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**

CAS # 7664-93-9 Sulfuric Acid

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

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

Not applicable.

### **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**

CAS # 7664-93-9 Sulfuric Acid Entry No.: 75 (B)

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

No ingredients listed.

### **UK Regulations**

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

Refer to Section 3

### **Canada**

This product meets WHMIS criteria for hazardous materials

### **China**

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

CAS # 7664-93-9 Sulfuric Acid

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

All ingredients are listed or exempted.

### **Turkey**

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

No ingredients listed.

### **International**

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

No ingredients listed.

## Section 15 Regulatory information (Continued)

### 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: 3</b> <b>Reactivity with water: 0</b> <b>Physical contact: 3</b>	Code 0=None 1=Slight 2=Caution 3=Severe
<b>Revision changes</b>	Update supplier addresses in Section 1.3	
<b>Document version and issue/revision date</b>	Revision Date (year/month/day) 2025/11/05 Last Revision Date (year/month/day) 2025/02/12 Document ID: A73818-75 Version: AR	
<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>	Eye Dam. 1 - Eye Damage Category 1 Skin Corr. 1A - Skin Corrosion Category 1A H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage.	
<b>Abbreviations and acronyms</b>	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	

## **SAFETY DATA SHEET**

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

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## SAFETY DATA SHEET

Document ID: A73818-75 Version AR  
 Revision Date (year/month/day) 2025/11/05  
 Last Revision Date (year/month/day) 2025/02/12

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

#### 1.1 Product identifier

**Product name** TMB Solution  
**Part number** Component of P/N A73818

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

**Product use** For Research Use Only.

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

##### Manufacturer

Manufactured by  
 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.  
 Amersham Place  
 Little Chalfont  
 Buckinghamshire  
 United Kingdom, HP7 9NA  
 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)

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

Beckman Coulter Ireland Inc.  
 Lismeehan  
 O'Callaghan's Mills  
 Co. Clare  
 Ireland  
 Tel: 353 (0)65 6831100

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

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

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  
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

# SAFETY DATA SHEET

Document ID: A73818-75 Version AR  
Revision Date (year/month/day) 2025/11/05  
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## Section 2 Hazards identification (Continued)

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

## Section 3 Composition and information on ingredients

### 3.2 Mixtures

Hazardous ingredients:		Hazard classification of pure ingredients		
Chemical name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Citric Acid CAS # 77-92-9 EINECS # 201-069-1 Index # Not available	1 - 2	Eye Irrit. 2, H319 STOT SE 3, H335	Eye Irrit. 2, H319 STOT SE 3, H335	3, 8, REST

3 - Health hazard

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

REST - Subject to Restriction as per Annex XVII of REACH Regulation (EC) No 1907/2006

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

## 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.

## 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.

---

## Section 5 Firefighting measures (Continued)

---

### 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

No special precautions are necessary. Use good laboratory 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

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

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

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

### DFG MAK

Citric Acid  
CAS # 77-92-9 4 mg/m<sup>3</sup> Peak (respirable fraction); 2 mg/m<sup>3</sup> TWA MAK (inhalable fraction)

**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.

## 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>	Not determined
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	≈ 3.8	<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

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

<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		
<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.

### Section 11 Toxicological information

<b>11.1 Information on hazard classes</b>	
<b>Toxicity data for hazardous ingredients</b>	
Citric Acid CAS # 77-92-9	Dermal LD50 Rat >2000 mg/kg (no deaths occurred)(EU_CLH); Oral LD50 Rat 3 g/kg (NLM_CIP)
<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.

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### Section 11 Toxicological information (Continued)

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<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>	No further relevant information available.

### Section 12 Ecological information

---

<b>12.1 Toxicity</b>	
<b>Fresh water species</b>	
Citric Acid CAS # 77-92-9	LC50 96 h Lepomis macrochirus: 1516 mg/L (OECD_SIDS)
<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)

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### 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

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### 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

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

## 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)

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### 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**

CAS # 77-92-9                      Citric Acid                      Entry No.: 75

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

No ingredients listed.

### UK Regulations

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

Refer to Section 3

## Section 15 Regulatory information (Continued)

### Canada

This product does not meet WHMIS criteria for hazardous materials.

### 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

#### **Türkiye-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: 1</b> <b>Reactivity with water: 0</b> <b>Physical contact: 1</b>	Code 0=None 1=Slight 2=Caution 3=Severe
<b>Revision changes</b>	Update supplier addresses in Section 1.3	
<b>Document version and issue/revision date</b>	Revision Date (year/month/day) 2025/11/05 Last Revision Date (year/month/day) 2025/02/12 Document ID: A73818-75 Version: AR	
<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>	Eye Irrit. 2 - Eye Irritation Category 2 STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3 H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.	

## 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: A73818-75 Version AR  
 Revision Date (year/month/day) 2025/11/05  
 Last Revision Date (year/month/day) 2025/02/12

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

#### 1.1 Product identifier

**Product name** Wash Concentrate I for lots without "CZ" only

**Part number** Component of P/N A73818

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

**Product use** For Research Use Only.

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

##### Manufacturer

Manufactured by  
 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.  
 Amersham Place  
 Little Chalfont  
 Buckinghamshire  
 United Kingdom, HP7 9NA  
 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)

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

Beckman Coulter Ireland Inc.  
 Lismeehan  
 O'Callaghan's Mills  
 Co. Clare  
 Ireland  
 Tel: 353 (0)65 6831100

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

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Last Revision Date (year/month/day) 2025/02/12

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

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  
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

## SAFETY DATA SHEET

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---

### Section 2 Hazards identification (Continued)

---

#### 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

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.

---

### 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.

## SAFETY DATA SHEET

Document ID: A73818-75 Version AR  
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Last Revision Date (year/month/day) 2025/02/12

### 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.  
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** 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 30°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

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

<b>Turkey</b>	None established
<b>8.2 Exposure controls</b>	
<b>Engineering controls</b>	No special engineering controls are required. Use with good general ventilation.
<b>Eye protection</b>	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.
<b>Skin protection</b>	Wear protective clothing and impervious gloves, as appropriate.
<b>Respiratory protection</b>	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>	1.05
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	7.2	<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.

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### 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**  
No further relevant information available.
- 10.4 Conditions to avoid** To maintain product performance keep away from strong acids, strong bases, strong oxidizers.  
Avoid exposure to heat and direct sunlight.
- 10.5 Incompatible materials** No further relevant information available.
- 10.6 Hazardous decomposition products**  
No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

### Section 11 Toxicological information

---

#### 11.1 Information on hazard classes

##### Toxicity data for hazardous ingredients

Not applicable

**Primary routes of exposure** Eye contact, ingestion, inhalation, and skin contact.

**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

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### Section 11 Toxicological information (Continued)

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	This product does not have substance(s) of endocrine disrupting properties for health according to REACH Article 57(f).
<b>Other information</b>	No further relevant information available.

### Section 12 Ecological information

---

<b>12.1 Toxicity</b>	
<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.
<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.
<b>12.6 Endocrine disrupting properties</b>	
	This product does not have substance(s) of endocrine disrupting properties for environment according to REACH Article 57(f).
<b>12.7 Other adverse effects</b>	No further relevant information available.

### Section 13 Disposal considerations

---

<b>13.1 Waste treatment methods</b>	
<b>Product waste disposal</b>	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.
<b>Additional information</b>	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.

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### Section 14 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.

- 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**

CAS # 7558-79-4      Sodium Phosphate, Dibasic

##### **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 # 7558-79-4      Sodium Phosphate, Dibasic

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

CAS # 7558-79-4      Sodium Phosphate, Dibasic

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## Section 15 Regulatory information (Continued)

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

CAS # 7558-79-4 Sodium Phosphate, Dibasic

### **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.

### **UK Regulations**

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

Refer to Section 3

### **Canada**

This product does not meet WHMIS criteria for hazardous materials.

### **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**

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

No ingredients listed.

### **International**

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

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## Section 15 Regulatory information (Continued)

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>	Code 0=None 1=Slight 2=Caution 3=Severe
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**Revision changes** Update supplier addresses in Section 1.3

### Document version and issue/revision date

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**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
- 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%

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### Section 16 Other information (Continued)

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

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

#### 1.1 Product identifier

**Product name** Wash Solution (20X) for "CZ" lot only

**Part number** Component of P/N A73818

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

**Product use** For Research Use Only.

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

##### Manufacturer

Manufactured by  
 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.  
 Amersham Place  
 Little Chalfont  
 Buckinghamshire  
 United Kingdom, HP7 9NA  
 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)

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

Beckman Coulter Ireland Inc.  
 Lismeehan  
 O'Callaghan's Mills  
 Co. Clare  
 Ireland  
 Tel: 353 (0)65 6831100

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

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

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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  
Colorless; Liquid; Odorless

**Classification according to EC 1272/2008 (CLP/GHS)**  
Toxic to Reproductive Category 1B, H360

**Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**  
Toxic to Reproductive Category 1

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## Section 2 Hazards identification (Continued)

### 2.2 Label elements

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

#### Hazardous ingredients

Sodium Borate Decahydrate

Boric Acid

#### Pictogram



#### Signal word

DANGER

#### Hazard statements

H360 May damage fertility or the unborn child.

#### Precautionary statements

##### Prevention

P201 Obtain special instructions before use.

P280 Wear protective gloves, protective clothing and eye/face protection.

##### Response

P308+P313 IF exposed or concerned: Get medical advice/attention.

##### Storage

P405 Store locked up.

##### Disposal

P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

## Section 3 Composition and information on ingredients

### 3.2 Mixtures

Hazardous ingredients:		Hazard classification of pure ingredients		
Chemical name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Sodium Borate Decahydrate CAS # 1303-96-4 EINECS # 215-540-4 Index # 005-011-00-4	0.1 - 0.3	Repr. 1B, H360	Repr. 1B, H360	REST, SVHC
Boric Acid CAS # 10043-35-3 EINECS # 233-139-2 Index # 005-007-00-2	0.1 - 0.3	Repr. 1B, H360	Repr. 1B, H360	REST, SVHC

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### Section 3 Composition and information on ingredients (Continued)

REST - Subject to Restriction as per Annex XVII of REACH Regulation (EC) No 1907/2006

SVHC - Substance of very high concern

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

### 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

May damage fertility or the unborn child.

See Section 11 Toxicological Information for more detailed health information.

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

No further relevant information available. Refer to Section 4.1.

### Section 5 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

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### Section 6 Accidental release measures (Continued)

- |   |   |
|---|---|
| <b>Personal precautions</b>                                     | Observe general safety guidelines for protection; avoid eye and skin contact.<br>Wear protective gloves, protective clothing and eye/face protection. |
| <b>6.2 Environmental precautions</b>                            | Contain spill to prevent migration.<br>Do not allow the undiluted product to enter sewers/surface or ground water.                                    |
| <b>6.3 Methods and material for containment and cleaning up</b> |   |
| <b>Spill and leak procedures</b>                                | Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.                                |
| <b>6.4 Reference to other sections</b>                          | Refer sections 8 and 13.  |

### Section 7 Handling and storage

- |   |  |
|---|--|
| <b>7.1 Precautions for safe handling</b>                                | Use good laboratory procedures; avoid eye and skin contact.  |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> | To maintain product quality, store according to the instructions in the product labeling.<br>Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10). |
| <b>7.3 Specific end uses</b>  | No further relevant information available.   |

### Section 8 Exposure controls and personal protection

- |  |  |
|--|--|
| <b>8.1 Control parameters</b>                  |  |
| <b>Exposure limits</b>                         |  |
| <b>US OSHA</b>                                 | None established   |
| <b>ACGIH</b>                                   |  |
| Boric Acid<br>CAS # 10043-35-3                 | 6 mg/m <sup>3</sup> STEL (inhalable particulate matter) (listed under Borate compounds, inorganic); 2 mg/m <sup>3</sup> TWA (inhalable particulate matter) (listed under Borate compounds, inorganic)  |
| Sodium Borate Decahydrate<br>CAS # 1303-96-4   | 6 mg/m <sup>3</sup> STEL (inhalable particulate matter) (listed under Borate compounds, inorganic); 2 mg/m <sup>3</sup> TWA (inhalable particulate matter) (listed under Borate compounds, inorganic)  |
| <b>ACGIH Biological Exposure Indices (BEI)</b> | None established   |
| <b>DFG MAK</b>                                 |  |
| Boric Acid<br>CAS # 10043-35-3                 | 10 mg/m <sup>3</sup> Peak (in case of a simultaneous presence of Boric acid and Tetraborates 0.75 mg Boron/m <sup>3</sup> applies) (as B) (inhalable fraction); 10 mg/m <sup>3</sup> TWA MAK (when boric acid and tetraborates are present together, the MAK value is 0.75 mg boron/m <sup>3</sup> ) (inhalable fraction) (as B) |

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

### Ireland

Boric Acid  
CAS # 10043-35-3 2 mg/m3 TWA (listed under Borate compounds inorganic); 6 mg/m3 STEL (calculated) (listed under Borate compounds inorganic)

Sodium Borate Decahydrate  
CAS # 1303-96-4 5 mg/m3 TWA (listed under Borates); 6 mg/m3 STEL (calculated) (listed under Borates)

### IOELVs

None established

### NIOSH

Sodium Borate Decahydrate  
CAS # 1303-96-4 5 mg/m3 TWA

### China

None established

### Croatia

Sodium Borate Decahydrate  
CAS # 1303-96-4 5 mg/m3 TWA [GVI]; Reproductive Toxin Category 1B

### Japan

None established

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

Sodium Borate Decahydrate  
CAS # 1303-96-4 2 mg/m3 TLV NGV; 5 mg/m3 Indicative STEL Vägledande KGV; Skin notation

### 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 impervious gloves such as Nitrile or equivalent and protective clothing. Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN 14605:2005+A1:2009 or appropriate government standards.

### Respiratory protection

Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Density and/or relative density</b>	1.19
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	8.3	<b>Organic</b>	Not determined

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

<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		
<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).

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### Section 11 Toxicological information

#### 11.1 Information on hazard classes

##### Toxicity data for hazardous ingredients

Boric Acid  
CAS # 10043-35-3 Dermal LD50 Rabbit >2000 mg/kg (NLM\_HSDB); Inhalation LC50 Rat >2.12 mg/L 4 h (no deaths occurred)(dust)(ECHA\_API); Oral LD50 Rat 2660 mg/kg (JAPAN\_GHS)

Sodium Borate Decahydrate  
CAS # 1303-96-4 Dermal LD50 Rabbit >10000 mg/kg (JAPAN\_GHS); Inhalation LC50 Rat >2 mg/m<sup>3</sup> 4 h (NLM\_HSDB); Oral LD50 Rat 3493 mg/kg (NZ\_CCID)

**Primary routes of exposure** Eye contact, ingestion, inhalation, and skin contact.

**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** May damage fertility or the unborn child.

##### 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** No further relevant information available.

### Section 12 Ecological information

#### 12.1 Toxicity

**Fresh water species** No information available.

**Microtox/organisms** No information available.

##### Water flea

Boric Acid  
CAS # 10043-35-3 EC50 48 h Daphnia magna: 115 - 153 mg/L (EPA)

**Fresh water algae** No information available.

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### Section 12 Ecological information (Continued)

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- 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

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- 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** 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

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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.

- 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

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- 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)**

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### Section 15 Regulatory information (Continued)

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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**

CAS # 1303-96-4      Sodium Borate Decahydrate

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

No ingredients listed.

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

CAS # 1303-96-4      Sodium Borate Decahydrate

#### **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)**

CAS # 10043-35-3      Boric Acid  
CAS # 1303-96-4      Sodium Borate Decahydrate

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## Section 15 Regulatory information (Continued)

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

CAS # 10043-35-3 Boric Acid Entry No.: 30; 75

CAS # 1303-96-4 Sodium Borate Decahydrate Entry No.: 30; 75

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

No ingredients listed.

### UK Regulations

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

Refer to Section 3

### Canada

This product meets WHMIS criteria for hazardous materials

### China

#### Catalog of Hazardous Chemicals - Hazardous Chemicals

CAS # 10043-35-3 Boric Acid

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

All ingredients are listed or exempted.

### Turkey

#### Türkiye-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: 3</b> <b>Reactivity with water: 0</b> <b>Physical contact: 3</b>	Code 0=None 1=Slight 2=Caution 3=Severe
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### Revision changes

Update supplier addresses in Section 1.3

### Document version and issue/revision date

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## Section 16 Other information (Continued)

<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>	Repr. 1B - Toxic to Reproductive Category 1B H360 - May damage fertility or the unborn child.
<b>Abbreviations and acronyms</b>	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

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### Section 16 Other information (Continued)

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

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