

# SAFETY DATA SHEET

Document ID: B38859-75 Version 08  
Revision Date (year/month/day) 2025/06/08  
Last Revision Date (year/month/day) 2024/07/26

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

### 1.1 Product identifier

**Product name** Urine/CSF Albumin Calibrator Levels 1-5

**Part number** B38859

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

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

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

#### Manufacturer

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

#### Supplier

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

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

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

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)

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

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

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

**e-mail address** SDSNT@beckman.com  
Further information Contact:  
Customer support Unit, Beckman Coulter Ireland Inc.  
Technical Service Department Tel. +001-800-854-3633 (PST)  
E-mail CC\_Support.ie@beckman.com

#### 1.4 Emergency telephone number

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887  
Tel +353 (0)65 683 1170; 08:00 - 16:30 hrs Mon-Thur, 08:00 - 15:30 hrs Fri (GMT) Tel +001-800-223-0130 (PST)

#### 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** In vitro diagnostic reagent.  
Colorless; Liquid; Mild odor

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

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

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

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

#### 2.2 Label elements

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

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

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## Section 2 Hazards identification (Continued)

### 2.3 Other hazards

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

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

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

## Section 3 Composition and information on ingredients

### 3.2 Mixtures

Hazardous ingredients:		Hazard classification of pure ingredients		
Chemical name	% by wt.	EU 1272/2008 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
1,4-Dioxane CAS # 123-91-1 EINECS # 204-661-8 Index # 603-024-00-5	< 0.01	Carc. 1B, H350 Eye Irrit. 2, H319 Flam. Liq. 2, H225 STOT SE 3, H335 EUH019 EUH066	Carc. 1B, H350 Eye Irrit. 2, H319 Flam. Liq. 2, H225 STOT SE 3, H335	2, 8
Ethylene Oxide CAS # 75-21-8 EINECS # 200-849-9 Index # 603-023-00-X	< 0.01	Acute Tox. Inhal. 3, H331 Acute Tox. Oral 3, H301 Carc. 1B, H350 Eye Dam. 1, H318 Flam. Gas 1, H220 Muta. 1B, H340 Press. Gas [CG], H280 Repr. 1B, H360 STOT RE 1, H372 STOT SE 3, H335, H336 Skin Corr. 1, H314  Acute Toxicity Estimates (ATE) ATE Inhalation - Vapors = 3 mg/L ATE Inhalation - Gases = 700 ppmV ATE Oral = 100 mg/kg	Acute Tox. Inhal. 3, H331 Acute Tox. Oral 3, H301 Carc. 1B, H350 Eye Dam. 1, H318 Flam. Gas 1, H220 Muta. 1B, H340 Press. Gas [CG], H280 Repr. 1B, H360 STOT RE 1, H372 STOT SE 3, H335, H336 Skin Corr. 1, H314	2, 8

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

<p>Propylene Oxide CAS # 75-56-9 EINECS # 200-879-2 Index # 603-055-00-4</p>	<p>&lt; 0.01</p>	<p>Acute Tox. Dermal 3, H311 Acute Tox. Inhal. 3, H331 Acute Tox. Oral 4, H302 Carc. 1B, H350 Eye Irrit. 2, H319 Flam. Liq. 1, H224 Muta. 1B, H340 STOT SE 3, H335</p> <p>Acute Toxicity Estimates (ATE) ATE Dermal = 300 mg/kg ATE Inhalation - Vapors = 3 mg/L ATE Oral = 520 mg/kg</p>	<p>Acute Tox. Dermal 3, H311 Acute Tox. Inhal. 3, H331 Acute Tox. Oral 4, H302 Carc. 1B, H350 Eye Irrit. 2, H319 Flam. Liq. 1, H224 Muta. 1B, H340 STOT SE 3, H335</p>	<p>2, 8</p>
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2 - Substance with Community workplace exposure limits  
8 - Present at concentration below the cut-off limits.

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

## 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).

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### Section 5 Firefighting measures (Continued)

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#### 5.3 Advice for firefighters

<b>Protective equipment</b>	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
<b>Additional information</b>	No further relevant information available.

### Section 6 Accidental release measures

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

<b>Personal precautions</b>	This product contains material of human origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures. Wear protective gloves, protective clothing and eye/face protection.
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<b>6.2 Environmental precautions</b>	Contain spill to prevent migration. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of contents/container in accordance with local regulations
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#### 6.3 Methods and material for containment and cleaning up

<b>Spill and leak procedures</b>	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.
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<b>6.4 Reference to other sections</b>	Refer sections 8 and 13.
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### Section 7 Handling and storage

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<b>7.1 Precautions for safe handling</b>	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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#### 7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.  
To maintain product quality, store according to the instructions in the product labeling.  
Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

<b>7.3 Specific end uses</b>	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

1,4-Dioxane CAS # 123-91-1	100 ppm TWA; 360 mg/m <sup>3</sup> TWA; prevent or reduce skin absorption
Ethylene Oxide CAS # 75-21-8	1 ppm TWA; 5 ppm STEL (see 29 CFR 1910.1047)
Propylene Oxide CAS # 75-56-9	100 ppm TWA; 240 mg/m <sup>3</sup> TWA

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

#### ACGIH

1,4-Dioxane CAS # 123-91-1	20 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route
Ethylene Oxide CAS # 75-21-8	1 ppm TWA
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)
Propylene Oxide CAS # 75-56-9	2 ppm TWA

#### ACGIH Biological Exposure Indices (BEI)

Ethylene Oxide CAS # 75-21-8	5000 pmol HEV/g globin medium: blood time: not critical parameter: N-(2-Hydroxyethyl)valine (HEV) hemoglobin adducts (applies to workers having representative Ethylene oxide exposure during the previous 120 days); 5 µg HEMA/g creatinine medium: urine time: end of shift parameter: S-(2-Hydroxyethyl)mercapturic acid (HEMA) (nonspecific, population based)
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#### DFG MAK

1,4-Dioxane CAS # 123-91-1	20 ppm Peak; 74 mg/m <sup>3</sup> Peak; skin notation; 10 ppm TWA MAK; 37 mg/m <sup>3</sup> TWA MAK
Ethylene Oxide CAS # 75-21-8	skin notation
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)
Propylene Oxide CAS # 75-56-9	4 ppm Peak; 9.6 mg/m <sup>3</sup> Peak; 2 ppm TWA MAK; 4.8 mg/m <sup>3</sup> TWA MAK

#### Ireland

1,4-Dioxane CAS # 123-91-1	20 ppm TWA (technical grade); 73 mg/m <sup>3</sup> TWA (technical grade); 60 ppm STEL (calculated); 219 mg/m <sup>3</sup> STEL (calculated); Potential for cutaneous absorption (technical grade)
Ethylene Oxide CAS # 75-21-8	1 ppm TWA; 1.8 mg/m <sup>3</sup> TWA; 3 ppm STEL (calculated); 5.4 mg/m <sup>3</sup> STEL (calculated); Potential for cutaneous absorption
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
Propylene Oxide CAS # 75-56-9	1 ppm TWA; 2.4 mg/m <sup>3</sup> TWA; 3 ppm STEL (calculated); 7.2 mg/m <sup>3</sup> STEL (calculated)

#### IOELVs

1,4-Dioxane CAS # 123-91-1	20 ppm TWA; 73 mg/m <sup>3</sup> TWA
Ethylene Oxide CAS # 75-21-8	Present (Substantial contribution to the total body burden via dermal exposure possible); 1.8 mg/m <sup>3</sup> TWA; 1 ppm TWA
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
Propylene Oxide CAS # 75-56-9	2.4 mg/m <sup>3</sup> TWA; 1 ppm TWA

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

### NIOSH

1,4-Dioxane CAS # 123-91-1	500 ppm IDLH
Ethylene Oxide CAS # 75-21-8	800 ppm IDLH; 0.1 ppm TWA (less than stated value); 0.18 mg/m <sup>3</sup> TWA (less than stated value)
Propylene Oxide CAS # 75-56-9	400 ppm IDLH

### China

1,4-Dioxane CAS # 123-91-1	Skin notation; 70 mg/m <sup>3</sup> TWA
Ethylene Oxide CAS # 75-21-8	Skin notation; 2 mg/m <sup>3</sup> TWA
Sodium Azide CAS # 26628-22-8	0.3 mg/m <sup>3</sup> Ceiling MAC
Propylene Oxide CAS # 75-56-9	5 mg/m <sup>3</sup> TWA

### Croatia

Butylated Hydroxytoluene CAS # 128-37-0	10 mg/m <sup>3</sup> TWA [GVI]
1,4-Dioxane CAS # 123-91-1	20 ppm TWA [GVI]; 73 mg/m <sup>3</sup> TWA [GVI]
Ethylene Oxide CAS # 75-21-8	Skin Notation (significant contribution to the total body load possible exposure through the skin); 1 ppm TWA [GVI]; 1.8 mg/m <sup>3</sup> TWA [GVI]; Carcinogen Category 1B; Mutagen Category 1B
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 [KGV]
Propylene Oxide CAS # 75-56-9	1 ppm TWA [GVI]; 2.4 mg/m <sup>3</sup> TWA [GVI]; Carcinogen Category 1B; Mutagen Category 1B

### Japan

1,4-Dioxane CAS # 123-91-1	1 ppm OEL; 3.6 mg/m <sup>3</sup> OEL
Ethylene Oxide CAS # 75-21-8	1 ppm OEL; 1.8 mg/m <sup>3</sup> OEL

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

1,4-Dioxane CAS # 123-91-1	10 ppm TLV NGV; 35 mg/m <sup>3</sup> TLV NGV; 25 ppm Indicative STEL Vägledande KGV; 90 mg/m <sup>3</sup> Indicative STEL Vägledande KGV
Ethylene Oxide CAS # 75-21-8	1 ppm TLV NGV; 1.8 mg/m <sup>3</sup> TLV NGV; 5 ppm Binding STEL Bindande KGV; 9 mg/m <sup>3</sup> Binding STEL Bindande KGV; Skin notation
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
Propylene Oxide CAS # 75-56-9	1 ppm TLV NGV; 2.4 mg/m <sup>3</sup> TLV NGV; 5 ppm Binding STEL Bindande KGV; 12,5 mg/m <sup>3</sup> Binding STEL Bindande KGV

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

### Turkey

1,4-Dioxane  
CAS # 123-91-1  
20 ppm TWA; 73 mg/m<sup>3</sup> TWA

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

### 8.2 Exposure controls

#### Engineering controls

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

#### Eye protection

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

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

#### Skin protection

Wear protective clothing and impervious gloves, as appropriate.

#### Respiratory protection

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

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Density and/or relative density</b>	1.002 @20°C
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Mild odor	<b>Water</b>	Miscible
<b>pH</b>	6.3 - 6.7	<b>Organic</b>	Not determined
<b>Freezing point</b>	Not determined	<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Boiling point or initial boiling point and boiling range</b>	Not determined	<b>Auto-ignition temp.</b>	Not applicable
<b>Flash point</b>	Not applicable	<b>Decomposition temperature</b>	Not determined
<b>Flammability</b>	Not applicable	<b>Vapor pressure</b>	Not determined
		<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)

#### 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 exposure to heat and direct sunlight.  
Avoid contact with incompatible materials.
- 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

1,4-Dioxane CAS # 123-91-1	Dermal LD50 Rabbit 7600 mg/kg (CHEMVIEW); Inhalation LC50 Rat 46 mg/L 2 h (vapor)(JAPAN_GHS); Oral LD50 Rat 5170 mg/kg (JAPAN_GHS)
Ethylene Oxide CAS # 75-21-8	Inhalation LC50 Rat 800 ppm 4 h (gas)(NLM_CIP); Oral LD50 Rat 72 mg/kg (JAPAN_GHS)
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)
Propylene Oxide CAS # 75-56-9	Dermal LD50 Rabbit 1244 mg/kg (NZ_CCID); Inhalation LC50 Rat 9.48 mg/L 4 h (vapor)(JAPAN_GHS); Oral LD50 Rat 520 mg/kg (JAPAN_GHS)

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

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

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

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

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

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

**Carcinogenicity** This product does not contain a reportable concentration ( $\geq 0.1\%$ ) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

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### Section 11 Toxicological information (Continued)

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

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

Not classified based on available data.

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

Not classified based on available data.

**Aspiration hazard**

Not classified based on available data.

#### 11.2 Information on other hazards

**Endocrine disrupting properties**

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

**Other information**

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

### Section 12 Ecological information

#### 12.1 Toxicity

**Fresh water species**

1,4-Dioxane  
CAS # 123-91-1

LC50 96 h *Lepomis macrochirus*: >10000 mg/L [static] (EPA); LC50 96 h *Lepomis macrochirus*: >10000 mg/L [semi-static] (IUCLID); LC50 96 h *Pimephales promelas*: 9850 mg/L [flow-through] (EPA); LC50 96 h *Pimephales promelas*: 10306 - 14742 mg/L [static] (EPA); LC50 96 h *Pimephales promelas*: 9850 mg/L (IUCLID)

Ethylene Oxide  
CAS # 75-21-8

LC50 96 h *Pimephales promelas*: 73 - 96 mg/L (EPA)

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]

Propylene Oxide  
CAS # 75-56-9

LC50 96 h *Lepomis macrochirus*: 215 mg/L [static] (EPA)

**Microtox/organisms**

No information available.

**Water flea**

1,4-Dioxane  
CAS # 123-91-1

EC50 48 h water flea: 163 mg/L [Static]

Ethylene Oxide  
CAS # 75-21-8

LC50 48 h *Daphnia magna*: 137 - 300 mg/L (IUCLID)

Propylene Oxide  
CAS # 75-56-9

EC50 48 h *Daphnia magna*: 350 mg/L (IUCLID)

**Fresh water algae**

Propylene Oxide  
CAS # 75-56-9

EC50 96 h *Pseudokirchneriella subcapitata*: 240 mg/L (IUCLID)

**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.

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## Section 12 Ecological information (Continued)

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### 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

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

## Section 13 Disposal considerations

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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.

Dispose of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or approved waste-disposal company for information.

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

#### Package disposal

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

#### Additional information

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

## 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 # 123-91-1	1,4-Dioxane	0.1% de minimis concentration
CAS # 75-21-8	Ethylene Oxide	0.1% de minimis concentration
CAS # 26628-22-8	Sodium Azide	1.0% de minimis concentration
CAS # 75-56-9	Propylene Oxide	0.1% de minimis concentration

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

CAS # 123-91-1	1,4-Dioxane
CAS # 75-21-8	Ethylene Oxide
CAS # 26628-22-8	Sodium Azide
CAS # 75-56-9	Propylene Oxide

##### 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 # 123-91-1	1,4-Dioxane
CAS # 75-21-8	Ethylene Oxide
CAS # 75-56-9	Propylene Oxide

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

CAS # 75-21-8	Ethylene Oxide
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##### Chemical which is known to the State of California to cause male reproductive toxicity

CAS # 75-21-8	Ethylene Oxide
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##### Chemical which is known to the State of California to cause female reproductive toxicity

CAS # 75-21-8	Ethylene Oxide
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##### Massachusetts Right To Know (RTK) List

CAS # 128-37-0	Butylated Hydroxytoluene
CAS # 123-91-1	1,4-Dioxane
CAS # 75-21-8	Ethylene Oxide
CAS # 26628-22-8	Sodium Azide
CAS # 75-56-9	Propylene Oxide

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## Section 15 Regulatory information (Continued)

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

CAS # 128-37-0	Butylated Hydroxytoluene
CAS # 123-91-1	1,4-Dioxane
CAS # 75-21-8	Ethylene Oxide
CAS # 26628-22-8	Sodium Azide
CAS # 75-56-9	Propylene Oxide

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

CAS # 128-37-0	Butylated Hydroxytoluene
CAS # 123-91-1	1,4-Dioxane
CAS # 75-21-8	Ethylene Oxide
CAS # 26628-22-8	Sodium Azide
CAS # 75-56-9	Propylene Oxide

### **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)**

Not applicable.

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

Not applicable.

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

No ingredients listed.

Refer to Section 3

### **UK Regulations**

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

Refer to Section 3

### **Canada**

This product is exempt from WHMIS label and SDS requirements.

### **China**

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## Section 15 Regulatory information (Continued)

### Catalog of Hazardous Chemicals - Hazardous Chemicals

CAS # 123-91-1	1,4-Dioxane
CAS # 75-21-8	Ethylene Oxide
CAS # 26628-22-8	Sodium Azide
CAS # 75-56-9	Propylene Oxide

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

All ingredients are listed or exempted.

### Turkey

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

Not applicable.

### International

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

CAS # 75-21-8	Ethylene Oxide
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### 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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Last Revision Date (year/month/day) 2024/07/26  
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### Section 16 Other information (Continued)

**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 3 - Acute Toxicity Dermal, Category 3  
Acute Tox. Inhal. 3 - Acute Toxicity Inhalation, Category 3  
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2  
Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3  
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4  
Carc. 1B - Carcinogenicity Category 1B  
Eye Dam. 1 - Eye Damage Category 1  
Eye Irrit. 2 - Eye Irritation Category 2  
Flam. Gas 1 - Flammable Gases (including chemically unstable gases), Category 1  
Flam. Liq. 1 - Flammable Liquids, Category 1  
Flam. Liq. 2 - Flammable Liquids, Category 2  
Press. Gas [CG] - Gases under pressure, Compressed Gas  
Muta. 1B - Germ Cell Mutagenicity Category 1B  
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1  
Skin Corr. 1 - Skin Corrosion Category 1  
STOT RE 1 - Specific Target Organ Toxicity Repeated Exposure Category 1  
STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3  
STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3  
Repr. 1B - Toxic to Reproductive Category 1B  
EUH019 - May form explosive peroxides.  
EUH032 - Contact with acids liberates very toxic gas.  
EUH066 - Repeated exposure may cause skin dryness or cracking.  
H220 - Extremely flammable gas.  
H224 - Extremely flammable liquid and vapour.  
H225 - Highly flammable liquid and vapour.  
H280 - Contains gas under pressure; may explode if heated.  
H300 - Fatal if swallowed.  
H301 - Toxic if swallowed.  
H302 - Harmful if swallowed.  
H311 - Toxic in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H318 - Causes serious eye damage.  
H319 - Causes serious eye irritation.  
H331 - Toxic if inhaled.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H340 - May cause genetic defects.  
H350 - May cause cancer.  
H360 - May damage fertility or the unborn child.

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## Section 16 Other information (Continued)

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### Abbreviations and acronyms

H372 - Causes damage to organs through prolonged or repeated exposure.  
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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For further information, please contact your local Beckman Coulter, Inc. representative.

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