CCWA

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 CCWA

Part Number 657133

Series Name SYNCHRON Systems

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

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

1.3 Details of the supplier of the safety data sheet

Manufacturer

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

EC REP Address

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)

e-mail address SDSNT@beckman.com

1.4 Emergency telephone number

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

Distributor and Emergency Phone No.

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

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture

Colorless; Clear; Liquid; Odorless

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

Skin Corrosion Category 1
Eye Damage Category 1

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

Skin Corrosion Category 1
Eye Damage Category 1

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
Ethylene Oxide
Dodecylbenzenesulphonic acid
C10-C16-alkylbenzene sulfonic acid
Formaldehyde
Potassium Hydroxide
Sulfur Dioxide

Pictogram

Signal Word

DANGER

Hazard Statements

H314 Causes severe skin burns and eye damage.

Precautionary Statements

P280 Wear protective gloves, protective clothing and eye/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.
P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixtures

Hazardous Ingredients:		Hazard Classification of Pure Ingredients		
Chemical Name	**% by wt.**	**EU 1272/2008 CLP/GHS**	**GHS**	**Note**

Section 3 Composition and Information on Ingredients (Continued)

Potassium Hydroxide CAS # 1310-58-3 EINECS # 215-181-3 Index # 019-002-00-8	< 1	Acute Tox. Oral 4, H302 Eye Dam. 1, H318 Skin Corr. 1A, H314	Acute Tox. Oral 4, H302 Aquatic Acute 3, H402 Eye Dam. 1, H318 Skin Corr. 1A, H314	
Dodecylbenzenesulphonic acid CAS # 27176-87-0 EINECS # 248-289-4 Index # Not available	< 0.1	Acute Tox. Oral 4, H302 Eye Dam. 1, H318 Skin Corr. 1B, H314	Acute Tox. Oral 4, H302 Eye Dam. 1, H318 Skin Corr. 1B, H314	
Sulfuric Acid CAS # 7664-93-9 EINECS # 231-639-5 Index # 016-020-00-8	< 0.1	Eye Dam. 1, H318 Skin Corr. 1A, H314	Eye Dam. 1, H318 Skin Corr. 1A, H314	
C10-C16-alkylbenzene sulfonic acid CAS # 68584-22-5 EINECS # 271-528-9 Index # Not available	< 0.1	Eye Dam. 1, H318 Skin Corr. 1B, H314	Eye Dam. 1, H318 Skin Corr. 1B, H314	
Sulfur Dioxide CAS # 7446-09-5 EINECS # 231-195-2 Index # 016-011-00-9	< 0.1	Acute Tox. Inhal. 3, H331 Eye Dam. 1, H318 Press. Gas [LG], H280 Skin Corr. 1B, H314	Acute Tox. Inhal. 3, H331 Eye Dam. 1, H318 Press. Gas [LG], H280 Skin Corr. 1B, H314	
Formaldehyde CAS # 50-00-0 EINECS # 200-001-8 Index # 605-001-00-5	< 0.1	Acute Tox. Dermal 3, H311 Acute Tox. Inhal. 3, H331 Acute Tox. Oral 3, H301 Carc. 1B, H350 Eye Dam. 1, H318 Muta. 2, H341 Skin Corr. 1B, H314 Skin Sens. 1, H317	Acute Tox. Dermal 3, H311 Acute Tox. Inhal. 3, H331 Acute Tox. Oral 3, H301 Carc. 1B, H350 Eye Dam. 1, H318 Muta. 2, H341 Skin Corr. 1B, H314 Skin Sens. 1, H317	
Ethylene Oxide CAS # 75-21-8 EINECS # 200-849-9 Index # 603-023-00-X	< 0.1	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 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	

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.

Section 4 First Aid Measures (Continued)

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

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

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available. Refer to Section 4.1.

Section 5 Fire Fighting Measures

5.1 Extinguishing Media

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

No special hazards determined.

Hazardous Combustion Products

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

5.3 Advice for fire fighters

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

5.4 Additional information

No further relevant information available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

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

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

6.2 Environmental Precautions

Contain spill to prevent migration.

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

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 Use good laboratory procedures; avoid eye and skin contact.

7.2 Conditions for safe storage, including any incompatibilities

Store at Room Temperature, 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

Sulfuric Acid CAS # 7664-93-9	1 mg/m3 TWA
Ethylene Oxide CAS # 75-21-8	1 ppm TWA; 5 ppm STEL (see 29 CFR 1910.1047)
Sulfur Dioxide CAS # 7446-09-5	5 ppm TWA; 13 mg/m3 TWA
Formaldehyde CAS # 50-00-0	0.75 ppm TWA; 2 ppm STEL (see 29 CFR 1910.1048)

ACGIH

Sulfuric Acid CAS # 7664-93-9	0.2 mg/m3 TWA (thoracic particulate matter)
Ethylene Oxide CAS # 75-21-8	1 ppm TWA
Potassium Hydroxide CAS # 1310-58-3	2 mg/m3 Ceiling
Sulfur Dioxide CAS # 7446-09-5	0.25 ppm STEL
Formaldehyde CAS # 50-00-0	0.3 ppm STEL; 0.1 ppm TWA

DFG MAK

Sulfuric Acid CAS # 7664-93-9	0.1 mg/m3 Peak (inhalable fraction); 0.1 mg/m3 TWA MAK
Ethylene Oxide CAS # 75-21-8	skin notation
Sulfur Dioxide CAS # 7446-09-5	1 ppm Peak (a ceiling value 1 mL/m3 or 2.7 mg/m3 must not be exceeded); 2.7 mg/m3 Peak (a ceiling value 1 mL/m3 or 2.7 mg/m3 must not be exceeded); 1 ppm TWA MAK; 2.7 mg/m3 TWA MAK
Formaldehyde CAS # 50-00-0	0.6 ppm Peak (no irritation should occur during mixed exposure); 0.74 mg/m3 Peak (no irritation should occur during mixed exposure); 0.3 ppm TWA MAK (no irritation should occur during mixed exposure); 0.37 mg/m3 TWA MAK (no irritation should occur during mixed exposure)

Section 8 Exposure Controls and Personal Protection (Continued)

Ireland

Sulfuric Acid CAS # 7664-93-9	0.05 ppm TWA; 0.15 ppm STEL (calculated)
Ethylene Oxide CAS # 75-21-8	5 ppm TWA; 10 mg/m3 TWA; 15 ppm STEL (calculated); 30 mg/m3 STEL (calculated); Potential for cutaneous absorption
Potassium Hydroxide CAS # 1310-58-3	2 mg/m3 STEL
Sulfur Dioxide CAS # 7446-09-5	0.5 ppm TWA; 1.3 mg/m3 TWA; 2.7 mg/m3 STEL; 1 ppm STEL
Formaldehyde CAS # 50-00-0	0.2 ppm TWA; 0.4 ppm STEL

IOELVs

Sulfuric Acid CAS # 7664-93-9	0.05 mg/m3 TWA

NIOSH

Sulfuric Acid CAS # 7664-93-9	15 mg/m3 IDLH; 1 mg/m3 TWA
Ethylene Oxide CAS # 75-21-8	800 ppm IDLH; 0.1 ppm TWA (less than stated value); 0.18 mg/m3 TWA (less than stated value)
Sulfur Dioxide CAS # 7446-09-5	100 ppm IDLH; 5 ppm STEL; 13 mg/m3 STEL; 2 ppm TWA; 5 mg/m3 TWA
Formaldehyde CAS # 50-00-0	20 ppm IDLH; 0.016 ppm TWA

Japan

Ethylene Oxide CAS # 75-21-8	1 ppm OEL; 1.8 mg/m3 OEL
Sulfur Dioxide CAS # 7446-09-5	OEL (Present)
Formaldehyde CAS # 50-00-0	0.1 ppm OEL; 0.12 mg/m3 OEL

Sweden (AFS 2015:7 and amendments)

Sulfuric Acid CAS # 7664-93-9	0.1 mg/m3 TLV; 0.2 mg/m3 Indicative STEL
Ethylene Oxide CAS # 75-21-8	1 ppm TLV; 1.8 mg/m3 TLV; 5 ppm Binding STEL; 9 mg/m3 Binding STEL; Skin notation
Potassium Hydroxide CAS # 1310-58-3	1 mg/m3 TLV; 2 mg/m3 Binding STEL
Sulfur Dioxide CAS # 7446-09-5	0.5 ppm TLV; 1.3 mg/m3 TLV; 1 ppm Binding STEL; 2.7 mg/m3 Binding STEL
Formaldehyde CAS # 50-00-0	0.3 ppm TLV; 0.37 mg/m3 TLV; 0.6 ppm Binding STEL; 0.74 mg/m3 Binding STEL; Skin notation

8.2 Exposure controls

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

Section 8 Exposure Controls and Personal Protection (Continued)

Eye Protection	Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.
Skin Protection	Wear impervious gloves such as Nitrile or equivalent and protective clothing. Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN 14605:2005+A1:2009 or appropriate government standards.
Respiratory Protection	Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid	**Specific Gravity (Water=1.0)**	1 @20°C
Color	Colorless	**Solubility**	
Transparency	Clear	**Water**	Miscible
Odor	Odorless	**Organic**	Not applicable
pH	12	**Partition coefficient: n-octanol/water**	Not determined
Freezing Point	Not determined	**Auto-ignition Temp.**	Not applicable
Boiling Point	Not determined	**Decomposition Temperature**	Not determined
Flash Point	Not applicable	**Percent Volatiles**	Not applicable
Evaporation Rate	Not determined	**Vapor Pressure**	Not determined
Flammability (Solid, Gas)	Not applicable	**Viscosity**	Not determined
Flammability Limits	Not applicable	**Explosive Properties**	Not applicable
Vapor Density	Not determined	**Oxidizing Properties**	Not applicable

Odor Threshold

Sulfuric Acid 0.15 ppm odor threshold value (detectable)
Ethylene Oxide 0.82 ppm odor threshold value
Sulfur Dioxide 0.33 - 0.34 ppm odor threshold value
Formaldehyde 0.027 ppm odor threshold value (recognizable)

9.2 Other Information No further relevant information available.

Section 10 Stability and Reactivity

10.1 Reactivity No further relevant information available.

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

Section 10 Stability and Reactivity (Continued)

10.3 Possibility of hazardous reactions

No further relevant information available.

10.4 Conditions to Avoid

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

Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous Decomposition Products

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

Section 11 Toxicological Information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

Sulfuric Acid CAS # 7664-93-9	Inhalation LC50 Rat 85 - 103 mg/m3 1 h; Oral LD50 Rat 2140 mg/kg
Ethylene Oxide CAS # 75-21-8	Inhalation LC50 Rat 800 ppm 4 h; Oral LD50 Rat 72 mg/kg
Potassium Hydroxide CAS # 1310-58-3	Oral LD50 Rat 284 mg/kg
C10-C16-alkylbenzene sulfonic acid CAS # 68584-22-5	Dermal LD50 Rabbit 2000 mg/kg; Oral LD50 Rat 775 mg/kg (in distilled water)
Dodecylbenzenesulphonic acid CAS # 27176-87-0	Dermal LD50 Rabbit 631 - 1000 mg/kg; Oral LD50 Rat 1260 mg/kg
Sulfur Dioxide CAS # 7446-09-5	Inhalation LC50 Rat 2500 ppm 1 h
Formaldehyde CAS # 50-00-0	Dermal LD50 Rabbit 270 mg/kg; Inhalation LC50 Rat 0.578 mg/L 4 h; Oral LD50 Rat 100 mg/kg

Primary Routes of Exposure Eye contact, ingestion, inhalation, and skin contact.

Acute Toxicity Not classified based on available data.

Skin Corrosion/Irritation Contact may cause severe skin burns.

Serious eye damage/eye irritation Contact may cause serious eye damage.

Respiratory/skin sensitization Not classified based on available data.

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

Germ cell mutagenicity Not classified based on available data.

Reproductive Toxicity Not classified based on available data.

Section 11 Toxicological Information (Continued)

Specific target organ toxicity – single exposure

Not classified based on available data.

Specific target organ toxicity – repeated exposure

Not classified based on available data.

Aspiration hazard Not classified based on available data.

Other Information No further relevant information available.

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species

Sulfuric Acid CAS # 7664-93-9	96 h LC50 Brachydanio rerio: >500 mg/L [static]
Ethylene Oxide CAS # 75-21-8	96 h LC50 Pimephales promelas: 73 - 96 mg/L
C10-C16-alkylbenzene sulfonic acid CAS # 68584-22-5	96 h LC50 Oncorhynchus mykiss: 3 mg/L [static]
Dodecylbenzenesulphonic acid CAS # 27176-87-0	96 h LC50 Oncorhynchus mykiss: 10.8 mg/L [static]; 96 h LC50 Brachydanio rerio: 3.5 - 10 mg/L [static]
Formaldehyde CAS # 50-00-0	96 h LC50 Pimephales promelas: 22.6 - 25.7 mg/L [flow-through]; 96 h LC50 Lepomis macrochirus: 1510 µg/L [static]; 96 h LC50 Brachydanio rerio: 41 mg/L [static]; 96 h LC50 Oncorhynchus mykiss: 0.032 - 0.226 mL/L [flow-through]; 96 h LC50 Oncorhynchus mykiss: 100 - 136 mg/L [static]; 96 h LC50 Pimephales promelas: 23.2 - 29.7 mg/L [static]

Microtox No information available.

Water Flea

Ethylene Oxide CAS # 75-21-8	48 h LC50 Daphnia magna: 137 - 300 mg/L
C10-C16-alkylbenzene sulfonic acid CAS # 68584-22-5	48 h EC50 Daphnia magna: 2.9 mg/L
Dodecylbenzenesulphonic acid CAS # 27176-87-0	48 h EC50 Daphnia magna: 5.88 mg/L
Formaldehyde CAS # 50-00-0	48 h LC50 Daphnia magna: 2 mg/L; 48 h EC50 Daphnia magna: 11.3 - 18 mg/L [Static]

Fresh Water Algae

Dodecylbenzenesulphonic acid CAS # 27176-87-0	96 h EC50 Pseudokirchneriella subcapitata: 29 mg/L

12.2 Persistence and degradability Not determined for the product.

12.3 Bioaccumulation Not determined for the product.

12.4 Mobility in soil Not determined for the product.

Section 12 Ecological Information (Continued)

12.5 Results of PBT and vPvB assessment

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

12.6 Other Adverse Effects

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

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product Waste Disposal

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

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.

13.2 Additional information

European waste catalogue 18 01 06* - chemicals consisting of or containing dangerous substances.

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 Shipping Name: Not regulated for transportation

14.3 Hazard Class: 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 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

Section 15 Regulatory Information

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

US Federal and State Regulations

Section 15 Regulatory Information (Continued)

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 # 7664-93-9	Sulfuric Acid	1.0% de minimis concentration
CAS # 111-42-2	Diethanolamine	1.0% de minimis concentration
CAS # 50-00-0	Formaldehyde	0.1% 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 # 7664-93-9	Sulfuric Acid
CAS # 1310-58-3	Potassium Hydroxide
CAS # 111-42-2	Diethanolamine
CAS # 27176-87-0	Dodecylbenzenesulphonic acid
CAS # 50-00-0	Formaldehyde
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

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 # 7664-93-9	Sulfuric Acid
CAS # 111-42-2	Diethanolamine
CAS # 50-00-0	Formaldehyde
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
CAS # 7446-09-5	Sulfur Dioxide

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

CAS # 75-21-8	Ethylene Oxide

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

CAS # 75-21-8	Ethylene Oxide

Section 15 Regulatory Information (Continued)

Massachusetts Right To Know (RTK) List

CAS # 123-91-1	1,4-Dioxane
CAS # 75-21-8	Ethylene Oxide
CAS # 7664-93-9	Sulfuric Acid
CAS # 1310-58-3	Potassium Hydroxide
CAS # 111-42-2	Diethanolamine
CAS # 27176-87-0	Dodecylbenzenesulphonic acid
CAS # 7446-09-5	Sulfur Dioxide
CAS # 50-00-0	Formaldehyde
CAS # 102-71-6	Triethanolamine
CAS # 75-56-9	Propylene Oxide

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

CAS # 123-91-1	1,4-Dioxane
CAS # 75-21-8	Ethylene Oxide
CAS # 7664-93-9	Sulfuric Acid
CAS # 1310-58-3	Potassium Hydroxide
CAS # 111-42-2	Diethanolamine
CAS # 27176-87-0	Dodecylbenzenesulphonic acid
CAS # 7446-09-5	Sulfur Dioxide
CAS # 50-00-0	Formaldehyde
CAS # 102-71-6	Triethanolamine
CAS # 75-56-9	Propylene Oxide

Pennsylvania Right To Know (RTK) List

CAS # 123-91-1	1,4-Dioxane
CAS # 75-21-8	Ethylene Oxide
CAS # 7664-93-9	Sulfuric Acid
CAS # 1310-58-3	Potassium Hydroxide
CAS # 111-42-2	Diethanolamine
CAS # 27176-87-0	Dodecylbenzenesulphonic acid
CAS # 7446-09-5	Sulfur Dioxide
CAS # 50-00-0	Formaldehyde
CAS # 102-71-6	Triethanolamine
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

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

Section 15 Regulatory Information (Continued)

Refer to Section 3

Canada

This product is exempt from WHMIS label and SDS requirements.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

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

Section 16 Other Information

Beckman Coulter Safety Rating	**Flammability: 0** **Health: 3** **Reactivity with Water: 0** **Physical Contact: 3**	Code 0=None 1=Slight 2=Caution 3=Severe

Revision Changes

Removed the classification of EC Directives 1999/45/EC and 67/548/EEC from Sec. 2.1. Sec 3.2 and 15.1

Updated Section 5.

Updated Section 4, 8, 11, 12, 15

Updated Section 16.

Document version and issue/revision date

Revision Date (year/month/day) 2022/05/25

Last Revision Date (year/month/day) 2016/10/05

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Description of hazard Class and hazard statements from Section 3

Aquatic Acute 3 - Aquatic Hazard Acute, Category 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

Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4

Carc. 1B - Carcinogenicity Category 1B

Eye Dam. 1 - Eye Damage Category 1

Flam. Gas 1 - Flammable Gases (including chemically unstable gases), Category 1

Press. Gas [CG] - Gases under pressure, Compressed Gas

Press. Gas [LG] - Gases under pressure, Liquefied Gas

Muta. 1B - Germ Cell Mutagenicity Category 1B

Muta. 2 - Germ Cell Mutagenicity Category 2

Skin Corr. 1 - Skin Corrosion Category 1

Skin Corr. 1A - Skin Corrosion Category 1A

Skin Corr. 1B - Skin Corrosion Category 1B

Skin Sens. 1 - Skin Sensitization Category 1

STOT RE 1 - Specific Target Organ Toxicity Repeated Exposure Category 1

Section 16 Other Information (Continued)

STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3
Repr. 1B - Toxic to Reproductive Category 1B
H220 - Extremely flammable gas.
H280 - Contains gas under pressure; may explode if heated.
H301 - Toxic if swallowed.
H302 - Harmful if swallowed.
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H331 - Toxic if inhaled.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H340 - May cause genetic defects.
H341 - Suspected of causing genetic defects.
H350 - May cause cancer.
H360 - May damage fertility or the unborn child.
H372 - Causes damage to organs through prolonged or repeated exposure.
H402 - Harmful to aquatic life.

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany's maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA DGR - International Air Transport Association Dangerous Goods Regulation
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions' Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances

CCWA

SAFETY DATA SHEET

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Section 16 Other Information (Continued)

LD50 - Lethal Dose, 50%

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