

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

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

1.1 Product identifier

Product name FlowClean Cleaning Agent
Part number A64669

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)65 683 1100

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.
Oakley Court
Kingsmead Business Park, London
Road
High Wycombe
United Kingdom HP11 1JU
01494 441181

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

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

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

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

e-mail address SDSNT@beckman.com

1.4 Emergency telephone number

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

Distributor and emergency phone no.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

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

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

UNITED KINGDOM - For UK and Scotland: Emergency Call 999

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

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

NEW ZEALAND - 24 Hour emergency number: 0800 446 109

Section 2 Hazards identification

2.1 Classification of the substance or mixture

Product description Mixture
Blue; Liquid; Odorless

Classification according to EC 1272/2008 (CLP/GHS)
Skin Sensitization Category 1, H317

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS
Respiratory Sensitization Category 1

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)

Subtilisin

Pictogram



Signal word

DANGER

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

Section 2 Hazards identification (Continued)

Hazard statements

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

Prevention

P261 Avoid breathing vapours.

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

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

P284 In case of inadequate ventilation, wear respiratory protection.

Response

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

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

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

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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.

REACH Authorisation number

REACH/23/15/13, REACH/23/15/14, REACH/23/15/15, REACH/23/15/16,
REACH/23/15/17, REACH/23/15/18, REACH/23/15/19

UKREACH/22/03/1

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

This product has substance(s) of endocrine disrupting properties for health or environment according to REACH Article 57(f) at levels of 0.1% or higher.

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
Alkylphenol Ethoxylate CAS # 9016-45-9 EINECS # Not available Index # Not available	< 0.2	Acute Tox. Oral 4, H302 Aquatic Longterm 2, H411 Eye Irrit. 2A, H319 Skin Irrit. 2, H315 Acute Toxicity Estimates (ATE) ATE Oral = 500 mg/kg	Acute Tox. Oral 4, H302 Aquatic Longterm 2, H411 Eye Irrit. 2A, H319 Skin Irrit. 2, H315	8, EDe, EUAUTH, SVHC, UKAUTH

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

Section 3 Composition and information on ingredients (Continued)

Subtilisin CAS # 9014-01-1 EINECS # 232-752-2 Index # 647-012-00-8	0.1 - <0.3	Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Skin Irrit. 2, H315	Acute Tox. Oral 5, H303 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Skin Irrit. 2, H315	REST
Ethoxylated Nonylphenol CAS # 68412-54-4 EINECS # Not available Index # Not available	< 1	Acute Tox. Oral 4, H302 Aquatic Longterm 2, H411 Eye Dam. 1, H318 Skin Irrit. 2, H315 Acute Toxicity Estimates (ATE) ATE Oral = 500 mg/kg	Acute Tox. Oral 4, H302 Aquatic Longterm 2, H411 Eye Dam. 1, H318 Skin Irrit. 2, H315	8, EDe, EUAUTH, SVHC, UKAUTH
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	

8 - Present at concentration below the cut-off limits.
EDe - Endocrine disrupting properties (environment)
EUAUTH - Subject to Authorisation as per EU - REACH (1907/2006) Annex XIV
REST - Subject to Restriction as per Annex XVII of REACH Regulation (EC) No 1907/2006
SVHC - Substance of very high concern
UKAUTH - Subject to Authorisation as per UK - REACH Annex XIV

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.

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

Section 4 First aid measures (Continued)

- | | |
|---------------------|---|
| Eye contact | If product enters eyes, rinse eyes gently with water as a precaution. |
| Skin contact | In case of skin contact, rinse with plenty of water. Remove contaminated clothing and shoes. If pain or irritation occurs, 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**
May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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 ₂), 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 | Observe general safety guidelines for protection; avoid eye and skin contact.
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 | 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. |

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

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 2 to 25°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**
Subtilisin
CAS # 9014-01-1 0.00006 mg/m3 Ceiling (as crystalline active enzyme) (listed under Subtilisins)
- ACGIH Biological Exposure Indices (BEI)**
None established
- DFG MAK** None established
- Ireland**
Subtilisin
CAS # 9014-01-1 0.00006 mg/m3 TWA (proteolytic enzymes); 0.00006 mg/m3 STEL
- IOELVs**
None established
- NIOSH**
Subtilisin
CAS # 9014-01-1 0.00006 mg/m3 STEL (60 min) (listed under Subtilisins)
- China**
Subtilisin
CAS # 9014-01-1 15 ng/m3 TWA
- Croatia**
Subtilisin
CAS # 9014-01-1 Skin Notation; 0.00004 mg/m3 TWA [GVI]
- Japan** None established
- Sweden (AFS 2015:7 and amendments)**
Subtilisin
CAS # 9014-01-1 1 glycine unit/m3 TLV NGV; 3 glycine unit/m3 Binding STEL Bindande KGV
- Turkey** None established

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

Section 8 Exposure controls and personal protection (Continued)

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

Physical state	Liquid	Density and/or relative density	1.02 @20°C
Color	Blue	Solubility	
Odor	Odorless	Water	Miscible
pH	8.5 - 8.9	Organic	Not determined
Freezing point	Not determined	Partition coefficient n-octanol/water (log value)	Not determined
Boiling point or initial boiling point and boiling range	Not determined	Auto-ignition temp.	Not applicable
Flash point	Not applicable	Decomposition temperature	Not determined
Flammability	Not applicable	Vapor pressure	Not determined
		Kinematic viscosity	Not determined
Lower and upper explosion limit	Not applicable		
Relative vapor density	Not determined		
Particle characteristics	Not applicable		

9.2 Other information

Information with regard to physical hazard classes

Not applicable

Other safety characteristics

No further relevant information available.

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

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

Alkylphenol Ethoxylate CAS # 9016-45-9	Dermal LD50 Rabbit 1780 µL/kg (OECD_SIDS); Oral LD50 Rat 2590 mg/kg (NZ_CCID)
Subtilisin CAS # 9014-01-1	Oral LD50 Rat 3700 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	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	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.
Reproductive toxicity	Not classified based on available data.
Specific target organ toxicity (STOT) – single exposure	Not classified based on available data.

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

Section 11 Toxicological information (Continued)

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) at levels of 0.1% or higher.

Other information

No further relevant information available.

Section 12 Ecological information

12.1 Toxicity

Fresh water species

Ethoxylated Nonylphenol
CAS # 68412-54-4

LC50 96 h Pimephales promelas: 0.323 mg/L [flow-through] (ECHA)

Microtox/organisms

No information available.

Water flea

No information available.

Fresh water algae

No information available.

12.2 Persistence and degradability

Not determined for the product.

12.3 Bioaccumulative potential

Not determined for the product.

12.4 Mobility in soil

Not determined for the product.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

This product has substance(s) of endocrine disrupting properties for environment according to REACH Article 57(f) at levels of 0.1% or higher.

12.7 Other adverse effects

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

Section 13 Disposal considerations

13.1 Waste treatment methods

Product waste disposal

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

Additional information

concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for 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 # 9016-45-9	Alkylphenol Ethoxylate	1.0% de minimis concentration
CAS # 123-91-1	1,4-Dioxane	0.1% de minimis concentration
CAS # 68412-54-4	Ethoxylated Nonylphenol	1.0% de minimis concentration
CAS # 75-21-8	Ethylene 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

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

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

Section 15 Regulatory information (Continued)

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

CAS # 75-21-8 Ethylene Oxide

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

Massachusetts Right To Know (RTK) List

CAS # 123-91-1 1,4-Dioxane
CAS # 10377-60-3 Magnesium Nitrate
CAS # 111-76-2 Ethylene Glycol Monobutyl
Ether
CAS # 75-21-8 Ethylene Oxide

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

CAS # 123-91-1 1,4-Dioxane
CAS # 10377-60-3 Magnesium Nitrate
CAS # 111-76-2 Ethylene Glycol Monobutyl
Ether
CAS # 75-21-8 Ethylene Oxide
CAS # 1310-66-3 Lithium Hydroxide
Monohydrate
CAS # 129-17-9 Patent Blue VF

Pennsylvania Right To Know (RTK) List

CAS # 123-91-1 1,4-Dioxane
CAS # 10377-60-3 Magnesium Nitrate
CAS # 111-76-2 Ethylene Glycol Monobutyl
Ether
CAS # 75-21-8 Ethylene 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.

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

Section 15 Regulatory information (Continued)

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

CAS # 9016-45-9 Alkylphenol Ethoxylate
CAS # 68412-54-4 Ethoxylated Nonylphenol

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

CAS # 9016-45-9 Alkylphenol Ethoxylate Entry No.: 46[b]; 46a
CAS # 9014-01-1 Subtilisin Entry No.: 75

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

No ingredients listed.

EU REACH Authorisation number

REACH/23/15/13, REACH/23/15/14, REACH/23/15/15, REACH/23/15/16,
REACH/23/15/17, REACH/23/15/18, REACH/23/15/19

Under Article 66, downstream users shall notify the European Chemical Agency (ECHA) within 90 days of receiving this product. Use link below for instructions:

www.beckmancoulter.com/reachauthorisation

Alkylphenol Ethoxylate (CAS# 9016-45-9)

Ethoxylated Nonylphenol (CAS# 68412-54-4)

Downstream users with existing collection and adequate treatment of wastewater containing substance(s) listed above shall continue to maintain these arrangements. Notification requirements detailed below do not apply. Those discharging wastewater containing NPNeO and OPNeO substances must submit a notification to the following bodies, in accordance with the legislation transposing Directives 91/271/EEC and 2000/60/EC, as well as with national provisions of the Member States where the uses take place:

- (a) the competent authorities responsible under Directive 2000/60/EC;
- (b) the competent authorities responsible under Directive 91/271/EEC;
- (c) the wastewater treatment plant connected to the sewage system into which they are discharging that wastewater.

The notification shall include the annual volume of wastewater discharge and the amount of NPNeO and OPNeO substances listed above released. Upon request, downstream user shall make a copy of the notification available to the competent authority of the Member State for REACH where Authorisation use takes place.

UK Regulations

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

UK REACH Authorisation number

UKREACH/22/03/1

Under Article 66, you are required to notify the Health and Safety Executive (HSE) within 90 days of receiving this product. Use link below for instructions:

www.beckmancoulter.com/reachauthorisation

Canada

This product is exempt from WHMIS label and SDS requirements.

China

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

Section 15 Regulatory information (Continued)

Catalog of Hazardous Chemicals - Hazardous Chemicals

CAS # 9016-45-9	Alkylphenol Ethoxylate
CAS # 123-91-1	1,4-Dioxane
CAS # 10377-60-3	Magnesium Nitrate
CAS # 111-76-2	Ethylene Glycol Monobutyl Ether
CAS # 75-21-8	Ethylene Oxide

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

All ingredients are listed or exempted.

Turkey

Turkey-REACH - KKDIK Regulation - Annex 17 – Restrictions

CAS # 9016-45-9	Alkylphenol Ethoxylate
-----------------	------------------------

International

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

CAS # 75-21-8	Ethylene Oxide
---------------	----------------

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 Updated sections 1, 2, 3, 4, 8 and 15

Document version and issue/revision date

Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04
Document ID: A64669-75
Version: AL

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

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 2 - Acute Toxicity Dermal, Category 2
Acute Tox. Inhal. 2 - Acute Toxicity Inhalation, Category 2
Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4
Acute Tox. Oral 5 - Acute Toxicity Oral, Category 5
Eye Dam. 1 - Eye Damage Category 1
Eye Irrit. 2A - Eye Irritation Category 2A
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1
Aquatic Longterm 2 - Aquatic Hazard Long term, Category 2
Resp. Sens. 1 - Respiratory Sensitization Category 1
Skin Corr. 1C - Skin Corrosion Category 1C
Skin Irrit. 2 - Skin Irritation Category 2
Skin Sens. 1A - Skin Sensitization Category 1A
STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3
EUH071 - Corrosive to the respiratory tract.
H301 - Toxic if swallowed.
H302 - Harmful if swallowed.
H303 - May be harmful if swallowed.
H310 - Fatal in contact with skin.
H314 - Causes severe skin burns and eye damage.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H330 - Fatal if inhaled.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.
H411 - Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

Document ID: A64669-75 Version AL
Revision Date (year/month/day) 2023/12/27
Last Revision Date (year/month/day) 2023/10/04

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

Beckman Coulter, the stylized logo, and the Beckman Coulter product and service marks mentioned herein are trademarks or registered trademarks of Beckman Coulter, Inc. in the United States and other countries.

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

WHILE BECKMAN COULTER, INC. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, BECKMAN COULTER, INC. MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. BECKMAN COULTER, INC. SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.