

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

1.1 Product identifier

Product name BILI MAX
Part number 388309
Series name SYNCHRON Systems

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

Product use For Internal Use Only

1.3 Details of the supplier of the safety data sheet

Manufacturer

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

Supplier

CANADA
Beckman Coulter Canada LP
7075 Financial Drive
Mississauga, ON L5N 6V8
Canada
1-800-463-7828

UNITED KINGDOM
Beckman Coulter (UK) Ltd.
Oakley Court
Kingsmead Business Park, London
Road
High Wycombe
United Kingdom HP11 1JU
01494 441181

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

SWITZERLAND
Beckman Coulter Eurocenter SA
22, rue Juste-Olivier, Case Postale
1044,
CH-1260 Nyon 1, Switzerland.
Telephone: +41 (0)22 365 36 11
Monday through Friday, 9:00 am to
7:00pm)

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


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

MALTA
DX Distributor:
Cherubino Ltd

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

	DELFI Building, Sliema Road, Gzira, GZR 1637 Telephone: +356 21343270 Hours available: 08:30 – 17:00
e-mail address	SDSNT@beckman.com
1.4 Emergency telephone number	
Telephone number (24H)	Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887
Distributor and emergency phone no.	Refer to attached list, Document ID: 472050 , for local distributor and emergency phone numbers.
	UNITED STATES - Emergency Phone (24h): Chemtrec (800) 424-9300, International (001) 703-527-3887
	CANADA - Poison Centre: 1-844-764-7669; Centre antipoison du Québec: 1-800-463-5060
	UNITED KINGDOM - For UK and Scotland: Emergency Call 999
	IRELAND - National Poisons Information Centre Phone No.: Members of Public: +353 (01) 809 2166 (8:00 am to 10:00 pm 7 days a week); Healthcare Professionals: +353 (01) 809 2566 (24 hour service)
	AUSTRALIA - 24 Hour emergency contact phone number: 1800 060 881
	NEW ZEALAND - 24 Hour emergency number: 0800 446 109

Section 2 Hazards identification

2.1 Classification of the substance or mixture	
Product description	Mixture Amber; Liquid; Odorless
Classification according to EC 1272/2008 (CLP/GHS)	Acute Toxicity Oral, Category 4, H302
Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS	Acute Toxicity Oral, Category 4
2.2 Label elements	According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS
	Hazardous ingredients Ethylene Glycol
	Pictogram 
	Signal word WARNING

Section 2 Hazards identification (Continued)

Hazard statements

H302 Harmful if swallowed.

Precautionary statements

Prevention

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

Storage

None

Disposal

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

2% of product contains ingredients of unknown oral toxicity.

Product label will display most significant precautionary statements.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

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
Ethylene Glycol CAS # 107-21-1 EINECS # 203-473-3 Index # 603-027-00-1	30 - 40	Acute Tox. Oral 4, H302 Acute Toxicity Estimates (ATE) ATE Oral = 4700 mg/kg	Acute Tox. Oral 4, H302	

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.

SAFETY DATA SHEET

Document ID: 388309-75 Version AE
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Section 4 First aid measures (Continued)

- 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.
- 4.2 Most important symptoms and effects, both acute and delayed**
May be harmful if swallowed.
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 (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.
- 5.3 Advice for firefighters**
Protective equipment Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
- Additional information** No further relevant information available.

Section 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Personal precautions This product contains material of human and animal 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.
- 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 As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.
- 6.4 Reference to other sections** Refer sections 8 and 13.

Section 7 Handling and storage

- 7.1 Precautions for safe handling** This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store at -20 to -15°C , as directed on the product label. Keep container closed.
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

Ethylene Glycol
CAS # 107-21-1 50 ppm STEL (vapor fraction); 10 mg/m³ STEL (inhalable particulate matter, aerosol only); 25 ppm TWA (vapor fraction)

ACGIH Biological Exposure Indices (BEI)

None established

DFG MAK

Ethylene Glycol
CAS # 107-21-1 20 ppm Peak (can occur as vapor and aerosol at the same time); 52 mg/m³ Peak (can occur as vapor and aerosol at the same time); skin notation; 10 ppm TWA MAK (can occur as vapor and aerosol at the same time); 26 mg/m³ TWA MAK (can occur as vapor and aerosol at the same time)

Ireland

Ethylene Glycol
CAS # 107-21-1 20 ppm TWA; 52 mg/m³ TWA; 40 ppm STEL; 104 mg/m³ STEL; Potential for cutaneous absorption

IOELVs

Ethylene Glycol
CAS # 107-21-1 Possibility of significant uptake through the skin; 20 ppm TWA; 52 mg/m³ TWA; 40 ppm STEL; 104 mg/m³ STEL

NIOSH

None established

China

Ethylene Glycol
CAS # 107-21-1 40 mg/m³ STEL; 20 mg/m³ TWA

Croatia

Ethylene Glycol
CAS # 107-21-1 Skin Notation; 20 ppm TWA [GVI]; 52 mg/m³ TWA [GVI]; 40 ppm STEL [KGVI]; 104 mg/m³ STEL [KGVI]

Sodium Hydroxide
CAS # 1310-73-2 2 mg/m³ STEL [KGVI]

Japan

None established

Section 8 Exposure controls and personal protection (Continued)

Sweden (AFS 2015:7 and amendments)

Ethylene Glycol
CAS # 107-21-1 10 ppm TLV NGV; 25 mg/m³ TLV NGV; 40 ppm Binding STEL Bindande KGV;
104 mg/m³ Binding STEL Bindande KGV; Skin notation

Turkey

Ethylene Glycol
CAS # 107-21-1 40 ppm STEL; 104 mg/m³ STEL; Skin notation; 20 ppm TWA; 52 mg/m³ 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 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	1.058
Color	Amber	Solubility	
Odor	Odorless	Water	Miscible
pH	8.4 - 8.8	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		

Section 9 Physical and chemical properties (Continued)

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

When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

Section 11 Toxicological information

11.1 Information on hazard classes

Toxicity data for hazardous ingredients

Ethylene Glycol
CAS # 107-21-1

Dermal LD50 Rat 10600 mg/kg (JAPAN_GHS); Inhalation LC50 Rat >2.5 mg/L 6 h (aerosol)(ECHA_API); Oral LD50 Rat 4700 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

Harmful if swallowed.

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.

Reproductive toxicity

Not classified based on available data.

Section 11 Toxicological information (Continued)

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 materials of human and animal origin and should be considered as potentially capable of transmitting infectious diseases.

Section 12 Ecological information

12.1 Toxicity

Fresh water species

Ethylene Glycol
CAS # 107-21-1

LC50 96 h Oncorhynchus mykiss: 41000 mg/L (IUCLID); LC50 96 h Oncorhynchus mykiss: 14 - 18 mL/L [static] (EPA); LC50 96 h Lepomis macrochirus: 27540 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss: 40761 mg/L [static] (IUCLID); LC50 96 h Pimephales promelas: 40000 - 60000 mg/L [static] (EPA); LC50 96 h Poecilia reticulata: 16000 mg/L [static] (IUCLID)

Microtox/organisms

No information available.

Water flea

Ethylene Glycol
CAS # 107-21-1

EC50 48 h Daphnia magna: 46300 mg/L (IUCLID)

Fresh water algae

Ethylene Glycol
CAS # 107-21-1

EC50 96 h Pseudokirchneriella subcapitata: 6500 - 13000 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.

12.5 Results of PBT and vPvB assessment

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

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.

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

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 # 107-21-1

Ethylene Glycol

1.0% de minimis concentration

Section 15 Regulatory information (Continued)

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

CAS # 1310-73-2 Sodium Hydroxide
CAS # 107-21-1 Ethylene Glycol

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

No ingredients listed.

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

CAS # 107-21-1 Ethylene Glycol

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

No ingredients listed.

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

No ingredients listed.

Massachusetts Right To Know (RTK) List

CAS # 1310-73-2 Sodium Hydroxide
CAS # 107-21-1 Ethylene Glycol

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

CAS # 1310-73-2 Sodium Hydroxide
CAS # 107-21-1 Ethylene Glycol

Pennsylvania Right To Know (RTK) List

CAS # 1310-73-2 Sodium Hydroxide
CAS # 107-21-1 Ethylene Glycol

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.

Refer to Section 3

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 # 1310-73-2 Sodium Hydroxide

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

All ingredients are listed or exempted.

Turkey

Turkey-REACH - KKDIK Regulation - Annex 17 – Restrictions

No ingredients listed.

International

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

No ingredients listed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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

SAFETY DATA SHEET

Document ID: 388309-75 Version AE
Revision Date (year/month/day) 2024/10/05
Last Revision Date (year/month/day) 2023/12/23

Section 16 Other information

Beckman Coulter safety rating	Flammability: 0 Health: 2 Reactivity with water: 0 Physical contact: 2	Code 0=None 1=Slight 2=Caution 3=Severe
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Revision changes Updated sections 3, 8

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. Oral 4 - Acute Toxicity Oral, Category 4
 H302 - Harmful if swallowed.

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

Section 16 Other information (Continued)

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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