



SAFETY DATA SHEET

Doc. ID: 8306008-75 AC
Revised (year/month/day) 2013/04/15

Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name Fisherbrand® Optical Lens Cleaner
Part Number 8306008

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

Product Use For laboratory use only

1.3 Details of supplier of the safety data sheet

	Manufacturer	EC REP Address
e-mail address	Beckman Coulter, Inc. 250 S. Kraemer Blvd Brea, CA 92821, U.S.A. Tel: 800-854-3633 SDSNT@beckman.com	Beckman Coulter Ireland Inc. Mervue Business Park Mervue, Galway, Ireland Tel: 353 91 774068

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; Fruity odor

Classification according to EC Directives 1999/45/EC and 67/548/EEC
Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

US OSHA Hazardous

WHMIS B3; D2B

Potential Health Effects Summary Contact with the skin or eyes may cause irritation.

2.2 Label Elements

According to EC Directives (1999/45/EC and 67/548 EEC)
Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

2.3 Other Hazard

None identified

See Section 11 Toxicological Information for more detailed health information.

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Section 3 Composition and Information on Ingredients

3.2 Mixture

Hazardous Ingredients:		Hazard Classification of Pure Ingredients			
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	US OSHA	WHMIS
Ethylene Glycol Monobutyl Ether CAS # 111-76-2 EINECS # 203-905-0 Index # 603-014-00-0	4.9%	Xn;R20/21/22-36/38	Acute Tox. Dermal 4 Acute Tox. Inhal. 4 Acute Tox. Oral 4 Eye Irrit. 2 Flam. Liq. 4 Skin Irrit. 2 H227; H302; H312; H315; H319; H332	Combustible Liquid Irritant Toxic	B3; D1B; D2B

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

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 immediately and obtain medical attention.
Eye Contact	If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.
Skin Contact	In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If pain or irritation occur, obtain medical attention.
Ingestion	If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

Flammable Properties	Nonflammable solution.
5.1 Extinguishing Media	Use extinguishing media suitable for surrounding fire.
5.2 Special hazards arising from the substance or mixture	
Special Fire and Explosion Hazards	None identified

Section 5 Fire Fighting Measures (Continued)

Hazardous Combustion Products

No combustion products posing significant hazards are expected from this product.

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

None

Section 6 Accidental Release Measures

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions

No special precautions are necessary. Use good laboratory procedures.

6.2 Environmental Precautions

Contain spill to prevent migration.

6.3 Methods and material for containment and cleaning up

Spill and Leak Procedures

Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

6.4 Reference to other sections

Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling No special precautions are necessary; use good laboratory procedures.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from incompatible material (see Section 10).

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA

Ethylene Glycol Monobutyl Ether 50 ppm TWA; 240 mg/m³ TWA; prevent or reduce skin absorption
CAS # 111-76-2

ACGIH

Ethylene Glycol Monobutyl Ether 20 ppm TWA
CAS # 111-76-2

DFG MAK

Ethylene Glycol Monobutyl Ether 20 ppm Peak; 98 mg/m³ Peak; skin notation; 10 ppm TWA MAK; 49 mg/m³ TWA
CAS # 111-76-2 MAK

Ireland

Ethylene Glycol Monobutyl Ether 20 ppm TWA; 98 mg/m³ TWA; 50 ppm STEL; 246 mg/m³ STEL; Potential for
CAS # 111-76-2 cutaneous absorption

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Section 8 Exposure Controls and Personal Protection (Continued)

NIOSH

Ethylene Glycol Monobutyl Ether 700 ppm IDLH; 5 ppm TWA; 24 mg/m3 TWA
CAS # 111-76-2

Japan None established

8.2 Exposure controls

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

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

Skin Protection Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

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

Physical State	Liquid	Specific Gravity (Water=1.0)	0.994 @20°C
Color	Colorless	Solubility	
Transparency	Clear	Water	Miscible
Odor	Fruity odor	Organic	Not determined
pH	Not determined	Coefficient of Water/Oil Distribution	Not determined
Freezing Point	Not determined	Autoignition Temp.	Not applicable
Boiling Point	95°C (203°F)	Decomposition Temperature	Not determined
Flash Point	Not applicable	Percent Volatiles	4.9 %
Evaporation Rate	Not determined	Vapor Pressure	Not determined
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammable Limits	Not determined	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not determined
Odor Threshold	Ethylene Glycol Monobutyl Ether 0.10 ppm geometric mean air odor threshold = (detectable); 0.35 ppm geometric mean air odor threshold = (recognizable)		

9.2 Other Information None

Section 10 Stability and Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable in closed containers under normal temperatures and pressures.
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to Avoid	Keep away from incompatible material.
10.5 Incompatible materials	Strong oxidizers
10.6 Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product.

Section 11 Toxicological Information

11.1 Information on toxicological effects	
Toxicity Data for Hazardous Ingredients	
Ethylene Glycol Monobutyl Ether CAS # 111-76-2	Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg
Primary Routes of Exposure	The most likely routes of exposure are skin and eye contact. Inhalation may occur if mists are formed in product use.
Carcinogenicity	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
Potential Effects of Acute Exposure	Contact with the skin or eyes may cause irritation.
Potential Effects of Chronic Exposure	None identified
Symptoms of Overexposure	Symptoms may include redness and itching or burning of the skin and eyes.
Conditions Aggravated by Exposure	None identified
Other Information	None identified

Section 12 Ecological Information

12.1 Ecotoxicity	
Fresh Water Species	
Ethylene Glycol Monobutyl Ether CAS # 111-76-2	96 h LC50 Lepomis macrochirus: 1490 mg/L [static]; 96 h LC50 Lepomis macrochirus: 2950 mg/L
Microtox	No information available.
Water Flea	
Ethylene Glycol Monobutyl Ether CAS # 111-76-2	24 h EC50 Daphnia magna: 1698 - 1940 mg/L; 48 h EC50 Daphnia magna: >1000 mg/L

Section 12 Ecological Information (Continued)

Fresh Water Algae	No information available.
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulation	No information available.
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	Not applicable
12.6 Other Adverse Effects	No information available.

Section 13 Disposal Considerations

13.1 Waste treatment methods	
Product Waste 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	None

Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
<u>US Federal and State Regulations</u>	
SARA 313	Ethylene Glycol Monobutyl Ether is subject to reporting requirements of Section 313, Title III of SARA.
CERCLA RG's, 40 CFR 302.4	No ingredients listed.
California Proposition 65	No ingredients listed.
Massachusetts MSL	Ethylene Glycol Monobutyl Ether is listed.
New Jersey Dept. of Health RTK List	Ethylene Glycol Monobutyl Ether is listed.
Pennsylvania RTK	Ethylene Glycol Monobutyl Ether is listed.
<u>EU Regulations</u>	
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.	No ingredients listed.

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Section 15 Regulatory Information (Continued)

Canada

WHMIS Classification: D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Eye Irritation)
D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin Irritation)
B3 - Flammable and Combustible Material: Combustible Liquid

PIN Not applicable

Ingredients on Ingredient Disclosure List

Ethylene Glycol Monobutyl Ether
Sodium Lauryl Sulfate

Ingredients with unknown toxicological properties

None

15.2 Chemical Safety Assessment Not available

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

Beckman Coulter Safety Rating	Flammability: 0 Health: 2 Reactivity with Water: 0 Contact: 2	Code 0=None 1=Slight 2=Caution 3=Severe
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Revision Changes Revised per 453/2010 EC and ANSI Z400.1-2004 Standard.

Hazard Class, hazard statements and risk phrase description from section 3

Xn - Harmful
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36/38 Irritating to eyes and skin.
B3 - Flammable and Combustible Material: Combustible Liquid
D1B - Poisonous and Infections Material: Division 1 - Immediate and Serious Toxic Effects: Toxic (Acute Oral Toxicity)
D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin or Eye Irritation)
Acute Tox. Dermal 4 - Acute Toxicity Dermal, Category 4
Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4
Eye Irrit. 2 - Eye Irritation Category 2
Flam. Liq. 4 - Flammable Liquids, Category 4
Skin Irrit. 2 - Skin Irritation Category 2
H227 - Combustible Liquid
H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Section 16 Other Information (Continued)

H332 - Harmful if inhaled.

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

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