

Living up to Life



BIO SYSTEMS

Safety Data Sheet

F.S.C. 22 Blue

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

1.1 Product Identifier

Trade Name **F.S.C. 22 Blue**
Product # 3801481 3801481S
SDS # 205
SDS Date August 22, 2013

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Biological stain
Uses Advised Against: All other uses.

1.3 Details of the Supplier of the Substance or Mixture

Manufacturer/Preparer: Leica Biosystems Richmond, Inc. Leica Biosystems Canada, Inc.
5205 Route 12 83 Terracon Place
Richmond, IL 60071 Winnipeg, Manitoba R2J 4B3
800-225-8867 800-665-7425

1.4 Emergency Telephone Number

Emergency Spill Information 1-800- 424-9300 (CHEMTREC)
+1-703-527-3887 International calls (call collect)
Other Product Information: 1-800-225-8867

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008): Not classified as dangerous

EU Classification (67/548/EEC): Not classified as hazardous

2.2 Label Elements: None required

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS Number / EINECS Number / REACH Reg. Number	% (w/w)	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)
Polyethylene glycol	25322-68-3 Polymer	< 5	Not classified as hazardous	Not classified as hazardous

See Section 16 for full text of GHS and EU Classifications.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

First Aid

Eye contact: Flush eye with water while lifting the upper and lower lids apart. Get medical attention if irritation persists.

Skin contact: Wash skin with soap and water after handling.

Inhalation: Remove victim to fresh air. Get medical attention if irritation persists.

Ingestion: If small quantities are swallowed, rinse out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or drowsy person. If large amounts are swallowed or if irritation or discomfort occurs, get medical attention.

See Section 11 for more detailed information on health effects.

4.2 Most Important symptoms and effects, both acute and delayed: May cause mild eye irritation. Prolonged skin contact may cause mild irritation.

4.3 Indication of any immediate medical attention and special treatment needed: If large amounts are swallowed or if irritation or discomfort occurs, get medical attention.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:

Use any media that is suitable for the surrounding fire.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None known.

Combustion Products: Oxides of carbon, smoke.

5.3 Advice for Fire-Fighters: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective equipment.

6.2 Environmental Precautions:

Prevent entry in storm sewers and waterways. Report spill as required by local and federal regulations.

6.3 Methods and Material for Containment and Cleaning Up:

Stop spill at the source if it is safe to do so. Absorb with an inert material. Use non-sparking tools and equipment. Collect into a suitable container for disposal.

6.4 Reference to Other Sections:

Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for Safe Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Keep containers closed when not in use.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Protect containers from physical damage. Store in a cool area. Keep containers closed when not in use.

Empty containers retain product residues. Do not cut, weld, braze, etc. on or near empty containers. Follow all SDS precautions in handling empty containers

7.3 Specific end use(s):

Industrial uses: None identified

Professional uses: Biological stain

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	US OEL	EU IOEL	UK OEL	Germany OEL
Polyethylene glycol	10 mg/m ³ TWA AIHA WEEL (aerosol)	None Established	None Established	1000 mg/m ³ (inhalable)

Refer to local or national authority for exposure limits not listed above.

Chemical Name	Biological Limit Value
Polyethylene glycol	None Established

8.2 Exposure Controls:

Recommended Monitoring Procedures: Collection on charcoal tubes with analysis by gas chromatography.

Appropriate Engineering Controls: Use with adequate local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Personal Protective Measurers

Eye/face Protection: Wear safety glasses if splashing is possible.

Skin Protection: None normally required.

Hands: Impervious gloves recommended (latex or nitrile) for prolonged use.

Respiratory Protection: None needed with adequate ventilation. If the occupational exposure limit is exceeded, use an approved supplied air respirator. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 or other applicable regulations and good Industrial Hygiene practice.

Other protection: None required..

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Appearance: Blue liquid.	Odor: Not determined
Odor Threshold: Not applicable	pH: Not determined
Melting/Freezing Point: Not applicable	Boiling Point: Not determined
Flash Point: : Not flammable	Evaporation Rate: Not determined
Lower Flammability Limit: Not applicable	Vapor Pressure: Not available
Upper Flammability Limit: Not applicable	
Vapor Density(Air=1): Not applicable	Relative Density: Not established
Solubility: Soluble	Octanol/Water Partition Coefficient: Not available
Autoignition Temperature: Not available	Decomposition Temperature: Not established
Viscosity: Not applicable	Explosive Properties: Not explosive
Oxidizing Properties: None	Specific Gravity (H₂O= 1): Not established
Molecular Formula: Mixture	Molecular Weight: Mixture

9.2 Other Information: None available

SECTION 10: STABILITY and REACTIVITY

10.1 Reactivity: This material is not reactive under normal conditions.

10.2 Chemical Stability: Normally stable.

10.3 Possibility of Hazardous Reactions: Not expected to be reactive.

10.4 Conditions to Avoid: Strong oxidizing agents.

10.5 Incompatible Materials: None known.

10.6 Hazardous Decomposition Products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye Contact: May cause mild eye irritation with redness, and tearing.

Skin contact: Prolonged skin contact may cause irritation.

Inhalation: High mist concentrations may cause coughing and sneezing.

Ingestion: Swallowing may cause gastrointestinal effects including gastrointestinal irritation, nausea and diarrhea.

Acute toxicity: Polyethylene Glycol: LD50 Oral mouse 28,900 mg/kg

Skin corrosion/irritation: No data available for mixture. Components are not corrosive.

Eye damage/ irritation: No data available for mixture. Not classified as an eye irritant.

Respiratory Irritation: No data available for mixture. High concentrations of mists may be mildly irritating to the respiratory system.

Respiratory Sensitization: No data available for mixture. None of the components are respiratory sensitizers.

Skin Sensitization: No data available for mixture. None of the components are skin sensitizers.

Germ Cell Mutagenicity: No data available for mixture. None of the components are germ cell mutagens.

Carcinogenicity: No data available for mixture. None of the components of this product are listed as carcinogens by OSHA, ACGIH, IARC, NTP, or the EU Dangerous Substances Directive.

Reproductive Toxicity: No data available for mixture. This product is not expected to cause adverse reproductive effects.

Specific Target Organ Toxicity:

Single Exposure: None known.

Repeat Exposure: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: Propylene glycol: LC50 Salmo salar (Atlantic salmon) >1,000 mg/L

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative Potential: No data available

12.4 Mobility in Soil: No data available

12.5 Results of PVT and vPvB assessment: Not required.

12.6 Other Adverse Effects: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with local, state and national regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	N/A	Not classified for transport	N/A	N/A	N/A
Canadian TDG	N/A	Not classified for transport	N/A	N/A	N/A
EU ADR/RID	N/A	Not classified for transport	N/A	N/A	N/A
IMDG	N/A	Not classified for transport	N/A	N/A	N/A
IATA/ICAO	N/A	Not classified for transport	N/A	N/A	N/A

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not determined.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

INTERNATIONAL INVENTORIES

EPA TSCA INVENTORY: All of the components are listed on the TSCA inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT: All of the ingredients are listed on the Canadian Domestic Substances List.

U.S. REGULATIONS

OSHA HAZARD CLASSIFICATION: Not hazardous.

CERCLA Section 103: There is no RQ for this product. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 HAZARD CLASSIFICATION: Not hazardous.

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:
None

CALIFORNIA PROPOSITION 65: This product contains the following chemicals which are known to the State of California to cause cancer, reproductive toxicity or birth defects (developmental toxicity): None known

INTERNATIONAL REGULATIONS

WHMIS CLASSIFICATION: Not a controlled product.

SECTION 16: OTHER INFORMATION

Revision History: Updated Logo and website.

EU Classes and Risk Phrases for Reference (See Sections 2 and 3)

None

CLP/GHS Classification and H Phrases for Reference (See Section 3)

None

NFPA Rating:	Health: 1	Fire: 0	Instability: 0
HMIS Rating:	Health: 1	Fire: 0	Physical Hazard: 0

This Safety Data Sheet has been prepared in accordance with the REACH regulation in the EU and the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). It complies with the requirements of the Canadian Controlled Products Regulations and US 29CFR 1910.1200. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Leica Biosystems be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.

