

Living up to Life



BIO SYSTEMS

Safety Data Sheet

Harris Hematoxylin

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

1.1 Product Identifier

Trade Name Harris Hematoxylin
Product # 3801560 3801561 3801562
SDS # 119
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 dangerous

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)
Ethanol	64-17-5 200-578-6	<10	F R11	Flammable Liquid Category 2 (H225)

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 with soap and water. Get medical attention if irritation develops. Remove contaminated clothing and laundry before reuse.

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 eye, skin and respiratory 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: This product contains a small amount of flammable liquid.

Flammable vapors may collect in low, or confined areas .

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. 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. Eliminate all ignition sources and ventilate the area. Prevent entry into basements or confined areas.

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 eye and skin contact. Avoid breathing vapors. Use with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and launder before re-use. Keep product away from heat, sparks and all other sources of ignition. Keep containers closed when not in use.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Keep product away from heat, sparks and all other sources of ignition.

Protect containers from physical damage. Store in a cool area. Keep away from excessive heat and open flames. Keep containers closed when not in use. Store away from oxidizers.

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
Ethanol	1000 ppm TWA OSHA PEL 1000 ppm STEL ACGIH TLV	None Established	1000 ppm TWA	500 ppm TWA 1000 ppm STEL

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

Chemical Name	Biological Limit Value
Ethanol	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.

Skin Protection: Impervious clothing as needed to avoid skin contact.

Hands: Impervious gloves recommended (butyl or nitrile rubber).

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: Suitable washing facilities should be available.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Appearance: Dark purple liquid
Odor Threshold: 180ppm Ethanol
Melting/Freezing Point: -16°C (-70°F)
Flash Point: : >100 °C (>212°F) (Closed Cup)
Lower Flammability Limit: 3.3%
Upper Flammability Limit: 19%
Vapor Density(Air=1): 1.6 (Ethanol)
Solubility: Soluble in water
Autoignition Temperature: 363°C (685°F)
Viscosity: Not established

Oxidizing Properties: None
Molecular Formula: Mixture

Odor: Alcohol odor
pH: Not determined
Boiling Point: 78°C (173°F)
Evaporation Rate: Not determined
Vapor Pressure: 40 mmHg @ 20°C (MeOH)

Relative Density: 1.5
Octanol/Water Partition Coefficient: Not available
Decomposition Temperature: Not established
Explosive Properties: Vapors may be explosive in confined areas.
Specific Gravity (H₂O= 1): 1.5
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: Reaction with strong oxidizers may generate heat and cause fire.

10.4 Conditions to Avoid: Avoid heat, sparks, flames, and all other sources of ignition.

10.5 Incompatible Materials: Oxidizing agents.

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 irritation.

Skin contact: May cause mild irritation. Prolonged or repeated exposure may cause dryness or dermatitis.

Inhalation: May cause mild respiratory tract irritation. Prolonged or repeated exposure may cause central nervous system effects such as dizziness, drowsiness, and nausea.

Ingestion: Small amounts are not anticipated to cause adverse effects. Swallowing large amounts may cause central nervous system effects including dizziness, drowsiness, and nausea.

Acute toxicity:

Ethanol: LD50 oral rat 7060 mg/kg; LC50 inhalation rat 20000 ppm/10 hr.

Skin corrosion/irritation: No data available for mixture. Components are mild skin irritants.

Eye damage/ irritation: No data available for mixture.

Respiratory Irritation: No data available for mixture. High concentrations of vapors may be 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. Ingestion of alcoholic beverages is known to cause cancer in humans (IARC group 1).

Reproductive Toxicity: No data available for mixture. Ethanol is known to cause developmental toxicity when intentionally ingested during pregnancy.

Specific Target Organ Toxicity:

Single Exposure: None known.

Repeat Exposure: Ethanol when consumed as a beverage has been found to cause damage to the liver, nervous system and reproductive system.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity:**

Ethanol: LC50 rainbow trout 13000 mg/L/96 hr; LC50 daphnia magna 9268-14221 mg/L/48 hr; EC50 Chlorella pyrenoidosa (Green algae; growth inhibition) 9310 mg/L/48 hr

12.2 Persistence and degradability: Ethanol is readily biodegradable in screening tests

12.3 Bioaccumulative Potential: Ethanol has an estimated BCF of 3 suggesting that the potential for bioaccumulation is low.

12.4 Mobility in Soil: Ethanol is expected to have very mobility in soil.

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 regulated for transport	N/A	N/A	N/A
Canadian TDG	N/A	Not regulated for transport	N/A	N/A	N/A
EU ADR/RID	N/A	Not regulated for transport	N/A	N/A	N/A
IMDG	N/A	Not regulated for transport	N/A	N/A	N/A
IATA/ICAO	N/A	Not regulated 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.

EUROPEAN UNION: All of the components of this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

AUSTRALIA: All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).

CHINA: All of the ingredients are listed on the Chinese chemical inventory.

KOREA: All of the components of this product are listed on the Korean Existing Chemical List (KECL).

NEW ZEALAND: All of the components of this product are listed on the New Zealand Inventory of Chemicals (NzIoC).

PHILIPPINES: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

JAPAN: All of the components of this product are listed on the Japanese Existing and New Chemical Substances List (ENCS).

U.S. REGULATIONS

OSHA HAZARD CLASSIFICATION: Hazardous (exposure limit), Irritant

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: Acute Health

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): Methanol <1% (Reproductive).

INTERNATIONAL REGULATIONS

WHMIS CLASSIFICATION: Class D-2-B

SECTION 16: OTHER INFORMATION

Revision History: Updated Logo and website.

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

F Highly Flammable

R11 Highly Flammable

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

H225 Highly flammable liquid and vapour.

NFPA Rating: Health: 1 Fire: 1 Instability: 0

HMIS Rating: Health: 1 Fire: 1 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.