

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.2

SECTION 1: Identification

1.1. Identification

Trade name : SPECTRA Hemalast

Product code : 3801580, 3801595; 3801595, 3801394, 3801394

1.2. Recommended use and restrictions on use

Recommended use : H&E Staining System optimized for use with the SPECTRA Staining Instrument

Restrictions on use : Other uses

1.3. Supplier

Leica Biosystems Richmond, Inc 5205 Route 12

Richmond, IL 60071 - USA

T 844-534-2262

<u>LBSNA-LBS-QA@leicabiosystems.com</u> - <u>leicabiosystems.com</u>

1.4. Emergency telephone number

| Organization/Company | Emergency number |
|--|------------------|
| ChemTrec | 800-424-9300 |
| International Calls (call collect) | +1 703-527-3887 |
| Australia 24 Hr Poisons Information Centre | 13 11 26 |

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity (oral) Category 4 Harmful if swallowed
Specific target organ toxicity (repeated exposure) Category 2 May cause damage to organs

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS08

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : Harmful if swallowed

May cause damage to organs

Precautionary statements (GHS-US) : Do not breathe mist/vapours/spray.

Wash thoroughly after handling

Do not eat, drink or smoke when using this product

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Get medical advice/attention if you feel unwell

Rinse mouth

Dispose of contents/container in accordance with all local/regional/national/international

regulations

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|-----------------|--------------------|-------|---------------------------|
| Ethylene Glycol | (CAS No) 107-21-1 | <= 20 | Acute Tox. 4 (Oral), H302 |

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

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6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Ethylene Glycol (107-21-1) | | | |
|----------------------------|-----------------------|--|--|
| ACGIH | ACGIH TWA (ppm) | 25 ppm | |
| ACGIH | ACGIH STEL (mg/m³) | 10 mg/m³ | |
| ACGIH | ACGIH STEL (ppm) | 50 ppm | |
| ACGIH | ACGIH Ceiling (mg/m³) | 100 mg/m³ (Ethylene glycol; USA; Momentary value; TLV - Adopted Value) | |
| ACGIH | Remark (ACGIH) | Kidney dam; URT & eye irr | |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Colorless
Odor : odorless

Odor threshold : No data available

pH : 3-4

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Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available

Flash point : ≥ 212

Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Not applicable.
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : No data available

Specific gravity / density : 1.03

: No data available Solubility Log Pow : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available **Explosion limits** : No data available **Explosive properties** Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

| SPECTRA Hemalast | |
|------------------|-----------------------|
| ATE US (oral) | 500 mg/kg body weight |

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| Ethylene Glycol (107-21-1) | |
|--|--------------------------------------|
| LD50 oral rat | > 5000 mg/kg (Rat; Literature study) |
| ATE US (oral) | 500 mg/kg body weight |
| Skin corrosion/irritation | : Not classified |
| | pH: 3 - 4 |
| Serious eye damage/irritation | : Not classified |
| | pH: 3 - 4 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity – single exposure | : Not classified |
| Specific target organ toxicity – repeated exposure | : May cause damage to organs . |

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. **Toxicity**

 $: \ \, \text{The product is not considered harmful to aquatic organisms or to cause long-term adverse}$ Ecology - general effects in the environment.

| Ethylene Glycol (107-21-1) | |
|----------------------------|--|
| EC50 Daphnia 1 | > 10000 mg/l (EC50; 24 h) |
| LC50 fish 2 | 40761 mg/l (LC50; 96 h; Salmo gairdneri) |

Persistence and degradability 12.2.

| Ethylene Glycol (107-21-1) | | |
|---------------------------------|--|--|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. | |
| Biochemical oxygen demand (BOD) | 0.47 g O₂/g substance | |
| Chemical oxygen demand (COD) | 1.24 g O₂/g substance | |
| ThOD | 1.29 g O₂/g substance | |
| BOD (% of ThOD) | 0.36 | |

12.3. **Bioaccumulative potential**

| Ethylene Glycol (107-21-1) | |
|-------------------------------|--|
| BCF fish 1 | 10 (BCF; 72 h) |
| BCF other aquatic organisms 1 | 0.21 - 0.6 (BCF) |
| BCF other aquatic organisms 2 | 190 (BCF; 24 h) |
| Log Pow | -1.34 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

12.4. **Mobility in soil**

| Ethylene Glycol (107-21-1) | |
|----------------------------|-------------------|
| Surface tension | 0.048 N/m (20 °C) |

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Ethylene Glycol (107-21-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 5000 lb

15.2. International regulations

CANADA

Ethylene Glycol (107-21-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

| Ethylene Glycol (107-21-1) | | | | |
|--|--|---|---|-------------------------------------|
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | Yes | No | No | |

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Ethylene Glycol (107-21-1)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of H-phrases:

| H302 | Harmful if swallowed |
|------|----------------------|
| | |

SDS US Leica

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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