

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 Hematoxylin Product code : 3801581, 3801591; 3801586; 3801596, 3801381, 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 LBSNA-LBS-QA@leicabiosystems.com - leicabiosystems.com 1.4. **Emergency telephone number Organization/Company Emergency number** 800-424-9300 ChemTrec 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) GHS07 Signal word (GHS-US) : Warning : Harmful if swallowed

06/09/2022

Hazard statements (GHS-US)

Precautionary statements (GHS-US)

Rinse mouth

regulations

May cause damage to organs : Do not breathe mist/vapours/spray.

Wash thoroughly after handling

Do not eat, drink or smoke when using this product

Get medical advice/attention if you feel unwell

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

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

Safety Data Sheet

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

 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 				
2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/Information on ingredients	2.3.	Other hazards which do not result in classification		
Not applicable SECTION 3: Composition/Information on ingredients	No additional information available			
SECTION 3: Composition/Information on ingredients	2.4.	Unknown acute toxicity (GHS US)		
	Not applicable			
	SECTION 3: Composition/Information on ingredients			
	2.1	Substances		

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Ethylene Glycol	(CAS No) 107-21-1	< 40	Acute Tox. 4 (Oral), H302
Aluminum Sulfate	(CAS No) 10043-01-3	< 5	Skin Corr. 1A, H314 Eye Dam. 1, H318

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 general	: Call a poison center/doctor/physician if you feel unwell.	
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. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.	
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.	
4.2. Most important symptoms and effe	cts (acute and delayed)	
Symptoms/effects after skin contact	: Irritation.	
Symptoms/effects after eye contact	: Serious damage to eyes.	
4.3. Immediate medical attention and sp	ecial treatment, if necessary	
Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguish	ing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the che	emical	
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.	
5.3. Special protective equipment and pr	recautions 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. Avoid contact with skin and eyes.	
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".	

Safety Data Sheet

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

6.2.	Environmental precautions	
Avoid I	elease to the environment.	
6.3.	Methods and material for containn	nent and cleaning up
Metho	ds for cleaning up	: Take up liquid spill into absorbent material.
Other information		: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For fur	ther information refer to section 13.	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	tions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygien	e measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, includi	ng any incompatibilities
1.2.		

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/m ³)	10 mg/m ³	
ACGIH	ACGIH STEL (ppm)	50 ppm	
ACGIH	ACGIH Ceiling (mg/m ³)	100 mg/m ³ (Ethylene glycol; USA; Momentary value; TLV - Adopted Value)	
ACGIH	Remark (ACGIH)	Kidney dam; URT & eye irr	
Aluminum Sulfate (10043-01-3)			
Not applicable			

- Appropriate engineering controls Environmental exposure controls
- : Avoid release to the environment.

: Ensure good ventilation of the work station.

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

Safety Data Sheet

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

CTION 9: Physical and chemical properties		
Information on basic physical and chemical properties		
ysical state : Liquid		
lor : red		
or : odorless		
or threshold : No data available		
: 2 - 3		
lting point : Not applicable		
ezing point : No data available		
iling point : No data available		
sh point : > \geq 212 °F		
ative evaporation rate (butyl acetate=1) : No data available		
mmability (solid, gas) : Not applicable.		
por pressure : No data available		
lative vapor density at 20 °C : No data available		
ative density : No data available		
ecific gravity / density : 1.06		
ubility : No data available		
g Pow : No data available		
to-ignition temperature : No data available		
composition temperature : No data available		
cosity, kinematic : No data available		
cosity, dynamic : No data available		
plosion limits : No data available		
plosive properties : No data available		
idizing properties : No data available		
2. Other information		
No additional information available		
CTION 10: Stability and reactivity		
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

Safety Data Sheet

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

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 Hematoxylin			
ATE US (oral)	1250 mg/kg body weight		
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		
	рН: 2 - 3		
Serious eye damage/irritation	: Not classified		
	pH: 2 - 3		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity – single exposure			
specific target organ toxicity – single exposure			
Specific target organ toxicity – repeated exposure	: May cause damage to organs .		
Aspiration hazard	: Not classified		
Symptoms/effects after skin contact	: Irritation.		
Symptoms/effects after eye contact	: Serious damage to eyes.		
SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse 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)		
Aluminum Sulfate (10043-01-3)			
LC50 fish 1	214.6 - 228.5 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)		
EC50 Daphnia 1	242 mg/l (LC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)		
Threshold limit algae 1	3011 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 5 days; Algae; Static system; Fresh water; Experimental value)		
Threshold limit algae 2	602.17 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 5 days; Algae; Static system; Fresh water; Experimental value)		

Safety Data Sheet

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

12.2. Persistence and degradability		
Ethylene Glycol (107-21-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.	
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance	
ThOD	1.29 g O ₂ /g substance	
BOD (% of ThOD)	0.36	
Aluminum Sulfate (10043-01-3)		
Persistence and degradability	Biodegradability: not applicable. Hydrolysis in water.	

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).	
Aluminum Sulfate (10043-01-3)		
BCF fish 1	76 - 190 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 60 days; Salmo salar; Flow-through system; Fresh water; 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)

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

Safety Data Sheet

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

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	
Aluminum Sulfate (10043-01-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the 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)

Aluminum Sulfate (10043-01-3)

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 -	U.S California -	U.S California -	U.S California -	No significant risk	
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)	
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -		
		Female	Male		
No	Yes	No	No		

Ethylene Glycol (107-21-1)

U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

Aluminum Sulfate (10043-01-3)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Safety Data Sheet

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

Full text of H-phrases:

Full			
	H302	Harmful if swallowed	
	H314	Causes severe skin burns and eye damage	
	H318	Causes serious eye damage	
		,	
L			

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