

# ELITechGroup Aerospray<sup>®</sup> Cytology Stain D Hematoxylin I

Safety Data Sheet

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

#### **SECTION 1: Identification**

1.1.	Identification	
Produ	ict form	: Mixture
Produ	ict name	: Aerospray Cytology Stain D Hematoxylin I
Produ	ict code	: SS-051D
1.2.	Relevant identified uses of the subs	tance or mixture and uses advised against
Use o	f the substance/mixture	: In-Vitro laboratory reagent or component
1.3.	Details of the supplier of the safety	data sheet
	Group Inc.	
	est 1700 South UT 84321 - USA	
0 /	35) 752-6011 - F +1 (435) 752-4127	
•	bs@elitechgroup.com - www.elitechgrou	ip.com
1.4.	Emergency telephone number	
Emer	gency number	: Contact your distributor or poison control center in your country. InfoTrac Emergency Response: Calls within the USA, phone: 1-800-535-5053. Calls

Ils outside the USA, phone: +1 352-323-3500 (call collect) Customer ID: #90104 (NOTE: this number is required when a customer calls into either phone number above).

#### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS-US classification**

Acute Tox. 4 (Oral)	H302 - Harmful if swallowed.
Skin Irrit. 2	H315 - Causes skin irritation.
Eye Dam. 1	H318 - Causes serious eye damage.
STOT RE 2	H373 - May cause damage to organs through prolonged or repeated exposure (if swallowed).

Full text of H statements : see section 16

#### 2.2. Label elements

#### **GHS US labelling**

Hazard pictograms (GHS US)

:			
	GHS05	GHS07	GHS08
:	Danger		

Signal word (GHS US) Hazard statements (GHS US) : H302 - Harmful if swallowed. H315 - Causes skin irritation. H318 - Causes serious eye damage. H373 - May cause damage to organs through prolonged or repeated exposure (if swallowed). Precautionary statements (GHS US) : P260 - Do not breathe spray, mist, vapors. P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P312 - If swallowed: Call a POISON CENTER, a doctor if you feel unwell. P302+P352 - If on skin: Wash with plenty of soap and water.. P314 - Get medical advice/attention if you feel unwell. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

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 – 35	Acute Tox. 4 (Oral), H302
Aluminum sulfate hydrate	(CAS-No.) 17927-65-0	1-5	Eye Dam. 1, H318
acetic acid, conc≥90%, aqueous solutions	(CAS-No.) 64-19-7	1 – 2	Flam. Liq. 3, H226 Skin Corr. 1A, H314

Full text of H-statements: see section 16

#### SECTION 4: First aid measures

4.1.	Description of first aid measures
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First-aid measures general	: Call a poison center or a doctor 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	: 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 or a doctor if you feel unwell.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1.	Extinguishing media		
Suitable extinguishing media		: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2.	Special hazards arising from the sul	ostance or mixture	
Reactivity		: The product is non-reactive under normal conditions of use, storage and transport.	
5.3.	Advice for firefighters		
Protection during firefighting		: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTIO	SECTION 6: Accidental release measures		

Section of Academia release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
Emerge	ency procedures	: Avoid contact with skin and eyes.
6.1.2.	For emergency responders	
Protect	ive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
<b>6.2.</b> Avoid rel	Environmental precautions lease to the environment.	

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### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up
- Other information

- : Take up liquid spill into absorbent material.
  - : Dispose of materials or solid residues at an authorized site.

#### 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	: Avoid contact with skin and eyes.
Hygiene measures	: Wash contaminated clothing before reuse.

#### 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 (Vapor fraction)
ACGIH	ACGIH STEL (mg/m³)	10 mg/m <sup>3</sup> (Inhalable fraction, Aerosol only)
ACGIH	ACGIH STEL (ppm)	50 ppm (Vapor fraction)
ACGIH	Remark (ACGIH)	URT & eye irr

acetic acid, conc≥90%, aqueous solutions (64-19-7)		
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (ppm)	15 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; pulm func
OSHA	OSHA PEL (TWA) (mg/m³)	25 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm

#### 8.2. Exposure controls

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Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	<ul> <li>Protective gloves. Material: natural rubber latex or nitrile; minimum thickness = 4 ml; breakthrough ≥ 15 minutes.</li> </ul>
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	: Avoid release to the environment.

#### **SECTION 9: Physical and chemical properties**

9.1.	Information on basic physical and ch	mical properties
Physical s	state	: Liquid
		: No data available
		: No data available
Odor thre	eshold	: No data available
рН		: 2.6 (2.5 – 2.7)
Melting p	point	: Not applicable
Freezing	point	: No data available
Boiling po	oint	: ≈ 104
Flash poi	nt	: ≥ 104 °C
Relative e	evaporation rate (butylacetate=1)	: No data available

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Flammability (solid, gas)	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Relative vapor density at 20 °C	:	No data available
Solubility	:	Water: No available data
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	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 : Not classified Aerospray Cytology Stain D Hematoxylin I ATE US (oral) 1884.801 mg/kg bodyweight ethylene glycol (107-21-1) LD50 oral rat 7712 mg/kg bodyweight (according to BASF-internal standards, Rat, Male/female, Experimental value, Aqueous solution, Oral, 7 day(s)) LC50 inhalation rat (mg/l) > 2.5 mg/l (6 h, Rat, Male/female, Experimental value, Inhalation (aerosol)) ATE US (oral) 500 mg/kg bodyweight Aluminum sulfate hydrate (17927-65-0) LD50 oral rat > 5000 mg/kg acetic acid, conc≥90%, aqueous solutions (64-19-7) 3310 mg/kg bodyweight Animal: rat LD50 oral rat Skin corrosion/irritation : Causes skin irritation. pH: 2.6 (2.5 - 2.7)

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Serious eye damage/irritation	: Causes serious eye damage.
	pH: 2.6 (2.5 – 2.7)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
ethylene glycol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure (if swallowed).
acetic acid, conc≥90%, aqueous solutions (64	-19-7)
NOAEL (oral, rat, 90 days)	290 mg/kg bodyweight Animal: rat, Animal sex: male
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

EC50 Daphnia 2

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

ethylene glycol (107-21-1)	ethylene glycol (107-21-1)		
LC50 fish 1	40761 mg/l (96 h, Salmo gairdneri, Static system)		
EC50 Daphnia 1 > 10000 mg/l (24 h, Daphnia magna)			
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'		
acetic acid, conc≥90%, aqueous solutions (	acetic acid, conc≥90%, aqueous solutions (64-19-7)		
LC50 fish 1	> 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)		
EC50 Daphnia 1 > 1000 mg/l Test organisms (species): Daphnia magna			
LC50 fish 2 > 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)			

> 300.82 mg/l Test organisms (species): Daphnia magna

#### 12.2. Persistence and degradability

ethylene glycol (107-21-1)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water. Not established.	
Biochemical oxygen demand (BOD)	$0.47 \text{ g } O_2/\text{g substance}$	
Chemical oxygen demand (COD)	1.24 g O <sub>2</sub> /g substance	
ThOD	1.29 g $O_2/g$ substance	
BOD (% of ThOD)	0.36	
acetic acid, conc≥90%, aqueous solutions (€	54-19-7)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	

#### 12.3. Bioaccumulative potential

ethylene glycol (107-21-1)		
BCF fish 1	10 (72 h, Leuciscus idus)	
BCF other aquatic organisms 1 0.21 – 0.6 (Procambarus sp., Chronic)		
BCF other aquatic organisms 2	190 (24 h, Algae)	
Partition coefficient n-octanol/water (Log Pow)	-1.34 (Experimental value)	
Bioaccumulative potential	Not bioaccumulative. Not established.	
acetic acid, conc≥90%, aqueous solutions (64-19-7)		
Bioaccumulative potential	Not bioaccumulative.	

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#### 12.4. Mobility in soil

ethylene glycol (107-21-1)		
Surface tension	48 mN/m (20 °C)	
Ecology - soil	No (test)data on mobility of the substance available.	
acetic acid, conc≥90%, aqueous solutions (64-19-7)		
Ecology - soil Contains component(s) with potential for mobility in the soil. May be harmful to plant growth, formation.		

#### 12.5. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment 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 regulated for transport

#### Transportation of Dangerous Goods

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### **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		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.	
CERCLA RQ	5000 lb	
Aluminum sulfate hydrate (17927-65-0)		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory		
acetic acid, conc≥90%, aqueous solutions (64-19-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313		
CERCLA RQ	CERCLA RQ 5000 lb	

#### 15.2. International regulations

#### CANADA

ethylene glycol (107-21-1)	
Listed on the Canadian DSL (Domestic Substances List)	
acetic acid, conc≥90%, aqueous solutions (64-19-7)	
Listed on the Canadian DSL (Domestic Substances List)	

### EU-Regulations

No additional information available

#### National regulations

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e	thylene glycol (107-21-1)	
Li	Listed on EPA Hazardous Air Pollutant (HAPS)	
Α	Aluminum sulfate hydrate (17927-65-0)	
Ν	Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)	

#### 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		

ethylene glycol (107-21-1)	
U.S New Jersey - Right to Know Hazardous Substance List	
acetic acid, conc≥90%, aqueous solutions (64-19-7)	
U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	

#### **SECTION 16: Other information**

Persistent Bioaccumulative Toxic. Predicted No-Effect Concentration. Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. Regulations concerning the International Carriage of Dangerous Goods by Rail. Safety Data Sheet. Very Persistent and Very Bioaccumulative. Water Hazard Class.	Abbreviations and acronyms :	Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. Regulations concerning the International Carriage of Dangerous Goods by Rail. Safety Data Sheet. Very Persistent and Very
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#### Full text of H-statements:

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.

#### SDS US Custom - EBS

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.

Reason for Change: SDS updated to reflect proper GHS classification using values for boiling point and flash point that were included in section 9.1.