

ELITechGroup Aerospray® Cytology Stain D Hematoxylin II

Safety Data Sheet

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

SECTION 1: Identification

Identification

Product form : Mixture

: Aerospray Cytology Stain D Hematoxylin II Product name

Product code

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : In-Vitro laboratory reagent or component

1.3. Details of the supplier of the safety data sheet

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1.4. **Emergency telephone number**

Emergency number : Contact your distributor or poison control center in your country.

InfoTrac Emergency Response: Calls within the USA, phone: 1-800-535-5053. Calls 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

H302 - Harmful if swallowed. Acute Tox. 4 (Oral) Skin Irrit. 2 H315 - Causes skin irritation. Eye Dam. 1 H318 - Causes serious eye damage.

STOT RF 2 H373 - May cause damage to organs through prolonged or repeated exposure.

Full text of H statements: see section 16

2.2. **Label elements**

GHS US labelling

Hazard pictograms (GHS US)



GHS07



Signal word (GHS US) : Danger

: H302 - Harmful if swallowed. Hazard statements (GHS US)

H315 - Causes skin irritation. H318 - Causes serious eye damage.

H373 - May cause damage to organs through prolonged or repeated exposure.

: P260 - Do not breathe spray, mist, Vapors. Precautionary statements (GHS US)

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	1-5	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

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 : 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 : Call a poison center or a doctor if you feel unwell. Rinse mouth.

4.2. Most important symptoms and effects, 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 substance 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.

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".

6.2. Environmental precautions

Avoid release to the environment.

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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.

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. Avoid contact with

skin and eyes.

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

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/m³ (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

Odor threshold

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

Hand protection : Protective gloves. Material: natural rubber latex or nitrile; minimum thickness = 4 ml; breakthrough ≥

15 minutes.

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 chemical properties

Physical state : Liquid

: No data available: No data available: No data available

pH : 2.6 (2.4 – 2.9)

Melting point : Not applicable

Freezing point : No data available

Boiling point : $\approx 104\,^{\circ}\text{C}$ Flash point : $\approx 104\,^{\circ}\text{C}$

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Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available **Explosive limits** No data available **Explosive properties** : No data available Oxidising properties No data available : No data available Vapor pressure 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 : < °C

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 Hematoxyl	in II
ATE US (oral)	1920.374 mg/kg bodyweight
Aluminum sulfate hydrate (17927-65-0	1
LD50 oral rat	> 5000 mg/kg
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
acetic acid, conc≥90%, aqueous solutio	ns (64-19-7)
LD50 oral rat	3310 mg/kg bodyweight Animal: rat
61	Construction to the test and the

Skin corrosion/irritation : Causes skin irritation. $pH: 2.6 \ (2.4-2.9)$

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Serious eye damage/irritation : Causes serious eye damage.

pH: 2.6 (2.4 - 2.9)

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)

: Not classified Reproductive toxicity STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

acetic acid, conc≥90%, aqueous solutions (64-19-7)	
NOAEL (oral, rat, 90 days)	290 mg/kg bodyweight Animal: rat, Animal sex: male

: Not classified Aspiration hazard Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

SECTION 12: Ecological information

12.1.

EC50 Daphnia 2

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in

the environment.

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 solut	ions (64-19-7)
LC50 fish 1	> 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
ECEO Develois 1	1000 mg/l Test agranisms / mg/link in mg/l
EC50 Daphnia 1	> 1000 mg/l Test organisms (species): Daphnia magna

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

Persistence and degradability 12.2.

ethylene glycol (107-21-1)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water. Not established.	
Biochemical oxygen demand (BOD)	0.47 g O₂/g substance	
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance	
ThOD	1.29 g O₂/g substance	
BOD (% of ThOD)	0.36	
acetic acid, conc≥90%, aqueous solutions (6	4-19-7)	

acetic acid, conc≥90%, aqueous solutions (64-19-7)	
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	1-7)

Diodecanialative potential	The bloods and attention to the control of the cont
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.
L	
acetic acid, conc≥90%, aqueous solutions (64-19-7)	

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

Aluminum sulfate hydrate (17927-65-0)			
Not listed on the United States TSCA (Toxic Substances Control Act) inventory			
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		
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	5000 lb		

15.2. International regulations

CANADA

No additional information available

o additional information available		
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

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National regulations

Aluminum sulfate hydrate (17927-65-0)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

ethylene glycol (107-21-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

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

Abbreviations and acronyms

: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. European Agreement concerning the International Carriage of Dangerous Goods by Road. Acute Toxicity Estimate. Biological limit value. Chemical Abstract Service number. Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. Derived Minimal Effect level. Derived-No Effect Level. Median effective concentration. European Community number. European Standard. International Air Transport Association. International Maritime Dangerous Goods. Median lethal concentration. Median lethal dose. Lowest Observed Adverse Effect Level. No-Observed Adverse Effect Concentration. No-Observed Adverse Effect Level. No-Observed Effect Concentration. Occupational Exposure Limit. 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.

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.