

ELITechGroup Aerospray[®] Cytology Stain A EA-50

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

SECTION 1: Identification

1.1.	Identification		
Produc	t form	:	Mixture
Produc	t name	:	Aerospray Cytology Stain A EA-50
Produc	t code	:	SS-051A
1.2.	Relevant identified uses of the substance of	or n	nixture 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 sl	hee	t
ELITechG	iroup Inc.		
370 Wes	t 1700 South		
Logan, U	T 84321 - USA		
T +1 (435	5) 752-6011 - F +1 (435) 752-4127		
qara_ebs	elitechgroup.com - www.elitechgroup.com	1	
1.4.	Emergency telephone number		
Emerge	ency 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)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225 - Highly flammable liquid and vapour.

Full text of H statements : see section 16

2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US)

Signal word (GHS US)	
Hazard statements (GHS US)	
Precautionary statements (GHS US)	



: Danger

above).

- : H225 Highly flammable liquid and vapour.
- : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed.

Customer ID: #90104 (NOTE: this number is required when a customer calls into either phone number

- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves, eye protection, protective clothing.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378 - In case of fire: Use extinguishing powder, foam, carbon dioxide (CO2) to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool.

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

Other hazards 2.3.

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
ethanol	(CAS-No.) 64-17-5	70 - 80	Flam. Liq. 2, H225

Full text of H-statements: see section 16

SECTI	ON 4: First aid measures	
4.1.	Description of first aid measures	
First-a	aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-a	aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-a	aid measures after eye contact	: Rinse eyes with water as a precaution.
First-a	aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2.	Most important symptoms and eff	ects, both acute and delayed
No add	itional information available	
4.3.	Indication of any immediate medio	al attention and special treatment needed
Treat s	ymptomatically.	
SECTI	ON 5: Firefighting measures	
5.1.	Extinguishing media	
Suitab	ble extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Special hazards arising from the su	bstance or mixture
Fire h	azard	: Highly flammable liquid and vapour.
React	ivity	: Highly flammable liquid and vapour.
5.3.	Advice for firefighters	
Prote	ction during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTI	ON 6: Accidental release meas	ures

6.1.	Personal precautions, protective equ	ipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerg	ency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking.
6.1.2.	For emergency responders	
Protec	tive 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 re	elease to the environment.	
6.3.	Methods and material for containme	nt and cleaning up
Metho	ods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other	information	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furt	her information refer to section 13.	
SECTIO	ON 7: Handling and storage	
7.1.	Precautions for safe handling	

Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames
	and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only
	non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may
	accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment.

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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 i	ncompatibilities
Technic	cal measures	: Ground/bond container and receiving equipment.
Storage	e conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

ethanol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

8.2. Exposure controls	
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
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Physical state	: Liquid
	: No data available
	: No data available
Odour threshold	: No data available
рН	: 5.6 (5.1 – 6.1)
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: ≈ 80 °C
Flash point	: ≈ 21 °C
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
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Solubility	: Water: No data available
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

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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

ethanol (64-17-5)	
LD50 oral rat	10740 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit, Literature study, Dermal)
LC50 inhalation rat (mg/l)	117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male/female, Experimental value, Inhalation)
Skin corrosion/irritation :	Not classified
	pH: 5.6 (5.1 – 6.1)
Serious eye damage/irritation :	Not classified
	рН: 5.6 (5.1 – 6.1)
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity :	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
ethanol (64-17-5)	
NOAEL (subchronic, oral, animal/male, 90 days)	< 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity ir Rodents)

	in Rodents)
Aspiration hazard	: Not classified

SECTION 12: Ecological information

NOAEL (subchronic, oral, animal/female, 90 days)

12.1. Toxicity

Ecology - general

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

> 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity

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LC50 fish 1	~
ethanol (64-17-5)	
LC50 fish 1	14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
NOEC (chronic)	9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d'

12.2. Persistence and degradability

ethanol (64-17-5)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.8 – 0.967 g O ₂ /g substance
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance
ThOD	2.1 g O ₂ /g substance
BOD (% of ThOD)	0.43

12.3. Bioaccumulative potential

ethanol (64-17-5)	
BCF fish 1	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)
Partition coefficient n-octanol/water (Log Pow)	-0.31 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

ethanol (64-17-5)	
Surface tension 0.022 N/m (20 °C)	
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	15
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapours may accumulate in the container.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1170 Ethanol solutions, 3, II
UN-No.(DOT)	: UN1170
Proper Shipping Name (DOT)	: Ethanol solutions
Class (DOT)	: ORM-D – Other regulated materials for domestic transport only
Hazard labels (DOT)	: 3 - Flammable liquid
	PLANMARE LIQUID 3

Packing group (DOT)
DOT Packaging Non Bulk (49 CFR 173.xxx)
DOT Packaging Bulk (49 CFR 173.xxx)

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DOT Special Provisions (49 CFR 172.102)	 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 4b;150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1170
Proper Shipping Name (IMDG)	: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 1170
Proper Shipping Name (IATA)	: Ethanol solution
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger
SECTION 15: Regulatory information	

15.1. US Federal regulations

ethanol (64-17-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

ethanol (64-17-5)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

ethanol (64-17-5)
Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

ethanol (64-17-5)

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

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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. Internation
	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:

run text of this statements.		
	H225	Highly flammable liquid and vapour.

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.