

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Hematology Aerofix® Additive for Methanol

Product code: SS-148, SS-148-EU

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Hematology Aerofix® Additive for Methanol

Further trade names

Wescor SS-148 Aerofix Additive

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

Use of the substance/mixture

Use as laboratory reagent.

Details of the supplier of the safety data sheet

Company name:	ELITechGroup Inc., (dba Wescor, Inc.)		
Street:	370 West 1700 South		
Place:	Logan, UT 84321 USA		
Telephone:	+1 (435) 752-6011	Telefax:	+1 (435) 752-4127
Responsible Department:	QA/RA Department	Tel.:	+1 (435) 752-6011
	370 West 1700 South	email:	qara_ebs@elitechgroup.com
	Logan, UT 84321 USA		

Emergency telephone number

Info Trac Emergency Response:

Contact your distributor or poison control center in your country.

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: Hazards identification

Classification of the substance or mixture

Indications of danger : Harmful

R-phrases:

Harmful if swallowed.

Label elements

Danger symbols: Xn - Harmful



Xn - Harmful

Hazardous components which must be listed on the label

ethanediol, ethylene glycol

R phrases

22 Harmful if swallowed.

SECTION 3: Composition/information on ingredients

Mixtures

Chemical characterization

Ethylene Glycol Based Additive for Methanol

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Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
203-473-3	ethanediol, ethylene glycol	55-70 %
107-21-1	Xn R22	
603-027-00-1	Acute Tox. 4; H302	
208-511-2	3-methylamino-7-dimethylaminophenothiazin-5-ium chloride (Azure B)	<1 %
531-55-5	Xn R20/21/22	

Full text of R- and H-phrases: see section 16.

Further Information

Note: This hazard characteristics refer to the properties of pure ingredients, for the identification of the preparation (product), see Section 2 and 15.

SECTION 4: First aid measures

Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

After inhalation

No special measures are necessary.

After contact with skin

After contact with skin, wash immediately with: Water.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Make affected person vomit if conscious. Never give anything by mouth to an unconscious person or a person with cramps. Immediately get medical attention.

Indication of any immediate medical attention and special treatment needed

Early administration of ethanol may counter the toxic effects of ethylene glycol (metabolic acidosis and renal damage). Hemodialysis or peritoneal dialysis has been of benefit (New Eng. J. Med. 304:21 1981).

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. Water fog. alcohol resistant foam.

Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, combustible. Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx). Formaldehyde.

Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

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Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. (Refer to section 8.)

Environmental precautions

Dumping into the environment must be prevented.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Subsequently wash again with: Water and soap.

Treat the assimilated material according to the section on waste disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Wear personal protection equipment. (Refer to section 8.)

Advice on protection against fire and explosion

Keep away from heat.

Further information on handling

Avoid contact with skin, eye and clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Protect against: UV-radiation/sunlight.

Advice on storage compatibility

Do not store together with: Oxidizing solids. Oxidizing liquids. Explosives. Food and fodder.

Further information on storage conditions

Maximum period of storage (time): 18 M

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits (EH40)

CAS No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL

Exposure controls

Occupational exposure controls

Use extractor hood (laboratory).

Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work.

Respiratory protection

Respiratory protection required in case of:

exceeding critical value
gas filtering equipment (EN 141).

Hand protection

Pull-over gloves of rubber. DIN EN 374

Suitable material:

(penetration time (maximum wearing period): >= 8h):
Butyl rubber.

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(penetration time (maximum wearing period): $\geq 4\text{h}$):

FKM (fluororubber).

(penetration time (maximum wearing period): $\geq 1\text{h}$):

CR (polychloroprenes, Chloroprene rubber).

Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking off and store in well-aired place.

Eye protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

Skin protection

Suitable protection of the body: Lab coat.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid: viscous

Colour: light blue

Odour: odourless

Test method

Changes in the physical state

Density: 1,14 g/cm³

Water solubility: complete miscible

SECTION 10: Stability and reactivity

Chemical stability

Stable under normal storage and handling conditions.

Conditions to avoid

Keep away from heat.

Incompatible materials

Oxidizing agents.

Hazardous decomposition products

Can be released in case of fire: Gas/vapours, combustible. Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x). Formaldehyde.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

CAS No.	Chemical name	Exposure routes	Method	Dose	Species	h
107-21-1	ethanediol, ethylene glycol					
	Acute oral toxicity	LD50	3580-15280 mg/kg		Rat.	
	Acute dermal toxicity	LD50	10600 mg/kg		Rabbit.	

Specific effects in experiment on an animal

No data available

Irritation and corrosivity

After skin contact: slightly irritant but not relevant for classification.

Following eye contact: slightly irritant but not relevant for classification.

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Sensitizing effects

No evidence for: Sensitization

Carcinogenic/mutagenic/toxic effects for reproduction

The statement is derived from the properties of the components.

No indications of human germ cell mutagenicity exist.

No evidence for: Carcinogenicity

No evidence for: Developmental toxicity/teratogenicity

SECTION 12: Ecological information

Toxicity

CAS No.	Chemical name	Method	Dose	Species	h
107-21-1	ethanediol, ethylene glycol				
	Acute fish toxicity	LC50	40761 mg/l	Oncorhynchus mykiss	96
	Acute algae toxicity	ErC50	6500-13000 mg/l	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50	13,9 mg/l	Ceriodaphnia sp.	48

Persistence and degradability

Product is biodegradable.

Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
107-21-1	ethanediol, ethylene glycol	-1,4
531-55-5	3-methylamino-7-dimethylaminophenothenothiazin-5-ium chloride (Azure B)	3,48

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal. Moreover, national legislation has to be observed!

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Cleaned containers may be recycled.

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SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not restricted

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

Changes

2014-09-03 Rev. B. Code correction.

Full text of R-phrases referred to under sections 2 and 3

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
22 Harmful if swallowed.

Full text of H-Statements referred to under sections 2 and 3

H302 Harmful if swallowed.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)