

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Hematology Reagent B Thiazin Stain / Hematology Reagent B Thiazin Stain Concentrate (diluted)

Product code: SS-071B, SS-071B-EU, SS-171B2 (DILUTED)

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

Product identifier

Hematology Reagent B Thiazin Stain / Hematology Reagent B Thiazin Stain Concentrate (diluted)

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

Use of the substance/mixture

Use as laboratory reagent.
Methanolic hematology fixative

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 : Toxic
R-phrases:
Flammable.
Toxic by inhalation, in contact with skin and if swallowed.
Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Label elements

Danger symbols: T - Toxic



T - Toxic

Hazardous components which must be listed on the label
methanol

R phrases

10	Flammable.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

S phrases

45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

SECTION 3: Composition/information on ingredients

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Mixtures

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
200-659-6	methanol	50-65 %
67-56-1	F, T R11-23/24/25-39/23/24/25	
603-001-00-X	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370 **	
200-578-6	Ethanol (SS-171B2 as diluted only)	<5 %
64-17-5	F R11	
206-019-2	imidazole	<1 %
288-32-4	C, Xn R22-34	
	(p-tert-Octylphenoxy) polyethoxyethanol	<1 %
9002-93-1	Xn, Xi, N R22-41-51-53	
208-511-2	3-methylamino-7-dimethylaminophenothiazin-5-ium chloride (Azure B)	< 1 %
531-55-5	Xn R20/21/22	
231-595-7	hydrochloric acid ... %	<1 %
	C, Xi R34-37	
017-002-01-X	Skin Corr. 1B, STOT SE 3; H314 H335	

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

Provide fresh air. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Immediately get medical attention.

After contact with skin

Remove contaminated clothing immediately and dispose off safely. After contact with skin, wash immediately with: Water and soap. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Make affected person vomit if conscious. Never give anything by

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mouth to an unconscious person or a person with cramps. Immediately get medical attention.

Most important symptoms and effects, both acute and delayed

Possible harmful effect(s) on human beings and possible symptom(s): Possible harmful effect(s) on human beings and possible symptom(s): Headache. Drowsiness. Nausea. Vomiting. Eye defects.

Ingestion: Toxic: danger of very serious irreversible effects if swallowed. Fatal if swallowed. Inhalation (> 100 ml) If swallowed there is a risk of going blind.

Inhalation: Toxic: danger of very serious irreversible effects through inhalation.

Skin contact: Large-scale skin contact may cause severe poisoning. Has de-greasing effect on the skin.

Repeated exposure may cause skin dryness or cracking.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**

Water spray.
alcohol resistant foam.
dry extinguishing powder.

Extinguishing media which must not be used for safety reasons

High power water jet.

Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂).

Advice for firefighters

Wear a self-contained breathing apparatus and chemical resistant suit.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation.

Wear personal protection equipment. (Refer to section 8)

Environmental precautions

Do not empty into drains or the aquatic environment.

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).

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

Clear contaminated area thoroughly.

Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage**Precautions for safe handling****Advice on safe handling**

Wear suitable protective clothing. (Refer to section 8)

Provide for sufficient ventilation and punctiform suction at critical points.

Use extractor hood (laboratory).

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

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Further information on handling

Flammable vapours can accumulate in steam space of closed systems.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place. Recommended storage temperature: 15°-25°C
 Unsuitable materials for Container: Base metals and alloys

Advice on storage compatibility

Do not store together with: Organic peroxides. Oxidizing solids. Oxidizing liquids. Food and fodder. Explosives. Substances or mixtures which, in contact with water emit flammable gases. Gases under pressure. Pyrophoric liquids and solids.

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect against: UV-radiation/sunlight.
 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
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL

Exposure controls

Occupational exposure controls

Use extractor hood (laboratory). Provide for sufficient ventilation and punctiform suction at critical points.
 Additional information: refer to chapter 7. No further action is necessary.

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. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored separately from work clothing.

Respiratory protection

Respiratory protection required in case of:
 exceeding critical value
 insufficient ventilation.
 insufficient absorption.
 Suitable respiratory protective equipment: gas filtering equipment (EN 141):. Type: AX

Hand protection

Pull-over gloves of rubber. DIN EN 374
 Suitable material:
 (penetration time (maximum wearing period): >= 8 Stunden):
 Butyl rubber.
 (penetration time (maximum wearing period): >= 4 Stunden):
 FKM (fluororubber).
 (penetration time (maximum wearing period): >= 1 Stunden):
 CR (polychloroprenes, Chloroprene rubber).

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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: Protective apron.

Environmental exposure controls

This material and its container must be disposed of in a safe way.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	blue
Odour:	Alcohol.

Test method

pH-Value:	6,7-6,9
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Changes in the physical state

Melting point:	<0 °C
Boiling point:	>64 °C
Flash point:	25-27 °C
Density:	0,88-0,90 g/cm ³
Water solubility:	miscible.

SECTION 10: Stability and reactivity**Conditions to avoid**

Keep away from heat.

In case of warming: Explosion hazard. Ignition hazard.

In case of shock or pressure: Explosion hazard. Ignition hazard.

Incompatible materials

Oxidizing agents, strong. Acid. Slowly corrodes aluminium and zinc under hydrogen evolution.

Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂).

SECTION 11: Toxicological information**Information on toxicological effects**

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Acute toxicity

CAS No.	Chemical name				
	Exposure routes	Method	Dose	Species	h
67-56-1	methanol				
	Acute oral toxicity	LD50	>5000 mg/kg	Rat.	
	Acute dermal toxicity	LD50	>15000 mg/kg	Rabbit.	
288-32-4	imidazole				
	Acute oral toxicity	LD50	220-970 mg/kg	Rat.	
9002-93-1	(p-tert-Octylphenoxy) polyethoxyethanol				
	Acute oral toxicity	LD50	1800-3800 mg/kg	Rat.	

Irritation and corrosivity

Irritant effect on the eye: slightly irritant but not relevant for classification.

Irritant effect on the skin: slightly irritant but not relevant for classification.

Sensitizing effects

No evidence for: Sensitization

Severe effects after repeated or prolonged exposure

Methanol. :

NOAEL: 270 mg/kg

Carcinogenic/mutagenic/toxic effects for reproduction

Methanol.:

No evidence for: Carcinogenicity

No evidence for: Developmental toxicity/teratogenicity

No evidence for: In-vitro mutagenicity

During animal experiments no indications of reproductive toxicity were observed.

SECTION 12: Ecological information

Toxicity

CAS No.	Chemical name				
	Aquatic toxicity	Method	Dose	Species	h
67-56-1	methanol				
	Acute fish toxicity	LC50	15400 mg/l	Lepomis macrochirus	96
288-32-4	imidazole				
	Acute fish toxicity	LC50	250 mg/l	48 h Leuciscus idus	96
	Acute algae toxicity	ErC50	82 mg/l	Scenedesmus subspicatus	96
	Acute crustacea toxicity	EC50	341 mg/l		48

Persistence and degradability

Product is biodegradable.

Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
67-56-1	methanol	-0,7
288-32-4	imidazole	-0,2
531-55-5	3-methylamino-7-dimethylaminophenothiazin-5-ium chloride (Azure B)	3,48

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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.

SECTION 14: Transport information

Land transport (ADR/RID)

UN number: 1992
UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S.
Transport hazard class(es): 3
Packing group: III
Hazard label: 3+6.1



Classification code: FT1
Special Provisions: 274
Limited quantity: 5 L
Transport category: 3
Hazard-no.: 36
Tunnel restriction code: D/E

Other applicable information (land transport)

Excepted quantity: E2
Excepted quantity: E1

Inland waterways transport

UN number: 1992
UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S.
Transport hazard class(es): 3

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Packing group:

III

Hazard label:

3+6.1



Classification code:

FT1

Special Provisions:

274 802

Limited quantity:

5 L

Other applicable information (inland waterways transport)

Excepted quantity: E2

Excepted quantity: E1

Marine transport

UN number:

1992

UN proper shipping name:

FLAMMABLE LIQUID, TOXIC, N.O.S.

Transport hazard class(es):

3

Packing group:

III

Hazard label:

3+6.1



Special Provisions:

223, 274

Limited quantity:

5 L

EmS:

F-E, S-D

Other applicable information (marine transport)

Excepted quantity: E2

Excepted quantity: E1

Air transport

UN/ID number:

1992

UN proper shipping name:

FLAMMABLE LIQUID, TOXIC, N.O.S.

Transport hazard class(es):

3

Packing group:

III

Hazard label:

3+6.1



Limited quantity Passenger:

2 L

IATA-packing instructions - Passenger:

355

IATA-max. quantity - Passenger:

60 L

IATA-packing instructions - Cargo:

366

IATA-max. quantity - Cargo:

220 L

Other applicable information (air transport)

Excepted quantity: E2

Passenger-LQ: Y341

Excepted quantity: E1

Passenger-LQ: Y344

Passenger-LQ: Y343

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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

- | | |
|-------------|---|
| 10 | Flammable. |
| 11 | Highly flammable. |
| 20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| 22 | Harmful if swallowed. |
| 23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| 34 | Causes burns. |
| 37 | Irritating to respiratory system. |
| 39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. |
| 41 | Risk of serious damage to eyes. |
| 51 | Toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |

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

- | | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H370 | Causes damage to organs. |

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.)