

## 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	ct form	: Mixture
Produ	ct name	: Hematology Reagent B: Thiazin Stain Concentrate
Produ	ct code	: SS-171B2
1.2.	Relevant identified uses of the s	ubstance or mixture and uses advised against
Use of	f the substance/mixture	: Hematology Pro staining reagent
1.3.	Details of the supplier of the safe	ety data sheet
ELITech	Group Inc.	
370 We	est 1700 South	
Logan,	UT 84321 - USA	
T +1 (43	35) 752-6011 - F +1 (435) 752-4127	
qara_e	os@elitechgroup.com - www.elitech	group.com

## 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**

- Flam. Liq. 3 H226 Flammable liquid and vapor Skin Irrit. 2 H315 - Causes skin irritation
- Eye Irrit. 2A H319 Causes serious eye irritation
- Repr. 1B H360 May damage fertility or the unborn child

STOT RE 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 labeling**

Hazard pictograms (GHS US)

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	water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	P280 - Wear protective gloves, protective clothing, eye protection. P302+P352 - If on skin: Wash with plenty of soap and water.
	P264 - Wash hands thoroughly after handling
	P260 - Do not breathe mist, spray, vapors.
	P233 - Keep container tightly closed.
	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautionary statements (GHS US)	: P201 - Obtain special instructions before use.
	H373 - May cause damage to organs through prolonged or repeated exposure
	H360 - May damage fertility or the unborn child
	H319 - Causes serious eye irritation
hazara statements (GHS GS)	H315 - Causes skin irritation
Hazard statements (GHS US)	: H226 - Flammable liquid and vapor
Signal word (GHS US)	: Danger
	GHS02 GHS07 GHS08
	GH502 GH507 GH508

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P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use ABC-powder, alcohol resistant foam, BC-powder, carbon dioxide (CO2),
D-powder 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.

## 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
1H-imidazole	(CAS-No.) 288-32-4	1-5	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Repr. 1B, H360
Tergitol TMN-100X	(CAS-No.) 60828-78-6	< 3	Skin Irrit. 2, H315 Eye Dam. 1, H318

Full text of H- and EUH-statements: see section 16

## **SECTION 4: First aid measures**

4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: If skin irritation occurs: Get medical advice/attention. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects, bo	th acute and delayed
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

SECTI	SECTION 5: Firefighting measures			
5.1.	Extinguishing media			
Suital	ole extinguishing media	: ABC powder. Alcohol-resistant foam. BC powder. Carbon dioxide. Dry powder. Foam. Sand. Water spray.		
Unsui	table extinguishing media	: Do not use a heavy water stream.		
5.2.	Special hazards arising from the	substance or mixture		
Fire h	azard	: Combustible liquid. Flammable liquid and vapor.		
Explo	sion hazard	: May form flammable/explosive vapor-air mixture.		
React	ivity	: The product is non-reactive under normal conditions of use, storage and transport. Flammable liquid and vapor.		
5.3.	Advice for firefighters			
Firefi	shting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.		

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Protection during firefighting		: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.			
SECTIC	ON 6: Accidental release meas	ures			
6.1.	Personal precautions, protective e	quipment and emergency procedures			
Genera	al measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.			
6.1.1.	For non-emergency personnel				
Emerg	ency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.			
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".			
Emerg	ency procedures	: Ventilate area.			
6.2.	Environmental precautions				
Avoid re	elease to the environment. Notify auth	orities if product enters sewers or public waters.			
6.3.	Methods and material for contain	ment 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 furtl	her information refer to section 13.				
SECTIO	ON 7: Handling and storage				
7.1.	Precautions for safe handling				
Additio	onal hazards when processed	: Handle empty containers with care because residual vapors are flammable.			
Precau	utions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment.			
Hygier	ne measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately.			
7.2.	Conditions for safe storage, includ	ing any incompatibilities			
Techni	ical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.			
Storag	e conditions	: Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.			
Incom	patible products	: Strong bases. Strong acids.			
Incom	patible materials	: Sources of ignition. Direct sunlight. Heat sources.			

#### 8.1. **Control parameters**

No additional information available

#### **Exposure controls** 8.2.

Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Avoid all unnecessary exposure.

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Hand protection	: Wear protective gloves. Suitable gloves should be tested to EN 374. The glove material has to be impermeable and resistant to the product/the substance/the preparation. As the product is a preparation of several substances, the resistance and penetration time/breakthrough time of the glove material cannot be calculated/observed in advance and, therefore, has to be checked prior to the application. The following are recommended: materials - natural latex or nitrile; thickness - 4 to 6 mils (0.1 mm - 0.15 mm); minimum breakthrough time - 60 minutes.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Wear respiratory protection.
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use.

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

9.1.	Information on basic physical and chemic	al p	roperties
Physic	al state	:	Liquid
Color		:	Blue
Odor		:	Characteristic
Odor	threshold	:	No data available
рН		:	No data available
Meltir	ng point	:	Not applicable
Freezi	ng point	:	No data available
Boiling	g point	:	No data available
Flash	point	:	≈ 45.6 °C
Relati	ve evaporation rate (butyl acetate=1)	:	No data available
Flamn	nability (solid, gas)	:	No data available
Explos	sion limits	:	No data available
Explos	sive properties	:	No data available
Oxidiz	ing properties	:	No data available
Vapor	pressure	:	No data available
Relati	ve density	:	No data available
Relati	ve vapor density at 20 °C	:	No data available
Solubi	lity	:	Water: No data available
Partiti	on coefficient n-octanol/water (Log Pow)	:	No data available
Auto-i	gnition temperature	:	No data available
Decor	nposition temperature	:	No data available
Viscos	ity	:	No data available
Viscos	ity, kinematic	:	No data available
Viscos	ity, dynamic	:	No data available
0.2	Other information		

### 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. Flammable liquid and vapor.

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

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#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity

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: Not classified

1H-imidazole (288-32-4)	
LD50 oral rat	≈ 970 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
ATE US (oral)	500 mg/kg body weight
Tergitol TMN-100X (60828-78-6)	
LD50 oral rat	5650 mg/kg (Rat, Oral)
LD50 dermal rabbit	4493 mg/kg (Rabbit, Dermal)
ATE US (oral)	5650 mg/kg body weight
ATE US (dermal)	4493 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
1H-imidazole (288-32-4)	
NOAEL (oral,rat,90 days)	60 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
ECTION 12: Ecological information	
2.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in t

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: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

1H-imidazole (288-32-4)		
LC50 fish 1	283.6 mg/l (48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 Daphnia 1	341.5 mg/l Test organisms (species): Daphnia magna	
ErC50 (algae)	133 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)	
Tergitol TMN-100X (60828-78-6)		
LC50 fish 1	39 mg/l (96 h, Pimephales promelas, Static system, Literature study)	
EC50 Daphnia 1	81.2 mg/l (48 h, Daphnia magna, Static system, Literature study)	

#### 12.2. Persistence and degradability

Hematology Reagent B: Thiazin Stain Concentrate	
Persistence and degradability	Not established.

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1H-imidazole (288-32-4)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
Tergitol TMN-100X (60828-78-6)	
Persistence and degradability	Not readily biodegradable in water.
Chemical oxygen demand (COD)	2.12 g O <sub>2</sub> /g substance
ThOD	0.49 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0 (5 day(s), Literature study)

## 12.3. Bioaccumulative potential

Hematology Reagent B: Thiazin Stain Concentrate		
Bioaccumulative potential	Not established.	
1H-imidazole (288-32-4)		
Partition coefficient n-octanol/water (Log Pow)	-0.02 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)	
Bioaccumulative potential	Not bioaccumulative.	
Tergitol TMN-100X (60828-78-6)		
Partition coefficient n-octanol/water (Log Pow)	4.2 (KOWWIN)	
Bioaccumulative potential	No bioaccumulation data available.	

## 12.4. Mobility in soil

1H-imidazole (288-32-4)	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Koc)	1.36 – 2.32 (log Koc, Calculated value)
Ecology - soil	Low potential for adsorption in soil.
Tergitol TMN-100X (60828-78-6)	
Ecology - soil	No (test)data on mobility of the substance available.

### 12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	<ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>
Additional information	: Handle empty containers with care because residual vapors are flammable. Flammable vapors may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT)	

In accordance with DOT	
Transport document description	

UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Hazard labels (DOT) : UN1170

: UN1170 Ethyl alcohol solutions, 3, III

- : Ethyl alcohol solutions
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



Packing group (DOT)

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DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	<ul> <li>244 - 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.</li> <li>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21 and 31HA2, 31HB2, 31HD2, and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T2 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 4b, 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 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.
Emergency Response Guide (ERG) Number	: 127
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)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1170
Proper Shipping Name (IATA)	: Ethanol solution
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

## 15.2. International regulations

## CANADA

1H-imidazole (288-32-4)	
Listed on the Canadian DSL (Domestic Substances List)	
Tergitol TMN-100X (60828-78-6)	
Listed on the Canadian DSL (Domestic Substances List)	

## **EU-Regulations**

No additional information available

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### National regulations

No additional information available

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

Other information

: None.

Full text of H-phrases:

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
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
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: updated to latest GHS format and classifications to meet compliance. Added Prop 65 information to Section 15.