

Safety Data Sheet

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	:	Hematology Reagent A - Buffer (pH 7.2)
Produc	t code	:	SS-072A, SS-072A-EU, SS-172A diluted with water, or SS-172A-EU diluted with water
1.2.	Relevant identified uses of the substance of	or n	nixture and uses advised against
Use of	the substance/mixture	:	Staining reagent
Use of	the substance/mixture	:	Laboratory chemical
1.3.	Details of the supplier of the safety data sh	nee	t
	Froup Inc.		
	t 1700 South T 84321 - USA		
0,	5) 752-6011 - F +1 (435) 752-4127		
•	s@elitechgroup.com - www.elitechgroup.com		
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) 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

Not classified

2.2. Label elements

GHS US labeling

No labeling applicable

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	GHS US classification
formaldehyde	(CAS-No.) 50-00-0	< 0.1	Flam. Gas 1, H220 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350
methanol	(CAS-No.) 67-56-1	< 0.1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370

Full text of H-phrases: see section 16

SECTIO	DN 4: First aid measures			
4.1.	Description of first aid measures			
First-a	id measures general	: IF exposed or concerned: Get medical advice/attention.		
First-aid measures after inhalation		: Remove person to fresh air and keep comfortable for breathing.		
First-a	id measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.		
First-a	id measures after eye contact	: Rinse eyes with water as a precaution.		
First-a	id measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.		
4.2.	Most important symptoms and effe	cts, both acute and delayed		
Sympt	oms/effects after skin contact	: May cause an allergic skin reaction.		
4.3.	Indication of any immediate medica	l attention and special treatment needed		
Treat sy	mptomatically.			
SECTIO	ON 5: Firefighting measures			
5.1.	Extinguishing media			
Suitab	le extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		
5.2.	5.2. Special hazards arising from the substance or mixture			
Fire hazard		: Not classified as flammable.		
Reactivity		: The product is non-reactive under normal conditions of use, storage and transport.		
5.3.	Advice for firefighters			
Protec	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
SECTIO	ON 6: Accidental release measu	res		
6.1.	Personal precautions, protective eq	uipment and emergency procedures		
6.1.1.	For non-emergency personnel			
Emerg	ency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Only qualified personnel equipped with suitable protective equipment may intervene.		
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. Notify autho	rities if product enters sewers or public waters.		
6.3.	Methods and material for containm	ent 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.		

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6.4. Reference to other sections

For further information refer to section 13.

SECTI	SECTION 7: Handling and storage				
7.1.	Precautions for safe handling				
Preca	utions 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 vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly.		
Hygie	ne measures	:	Contaminated work clothing should not be allowed out of the workplace. 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, including	any inco	ompatibilities		
Techn	ical measures	:	Ground/bond container and receiving equipment.		
Storag	ge conditions	:	Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.		

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

formaldehyde (50-00-0)			
ACGIH	ACGIH TWA (ppm)	0.1 ppm	
ACGIH	ACGIH STEL (ppm)	0.3 ppm	
ACGIH	Remark (ACGIH)	URT & eye irr	
methanol (67-56-1)			

ACGIH	ACGIH TWA (ppm)	200 ppm	
ACGIH	ACGIH STEL (ppm)	250 ppm	
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea	
OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m ³	
OSHA	OSHA PEL (TWA) (ppm)	200 ppm	

8.2. Exposure controls

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

SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and chemica	ıl pı	roperties
Physica	l state	:	Liquid
Appear	ance	:	Clear, colorless liquid
Color		:	Colorless
Odor		:	Characteristic
Odor th	reshold	:	No data available

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рН	:	7.2
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	> 100 °C
Flash point	:	> 90 °C
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Relative vapor 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

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

Not established.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

formaldehyde (50-00-0)			
LD50 oral rat 800 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, 2% aqueous solution			
	14 day(s))		
ATE US (oral) 100 mg/kg body weight			
ATE US (dermal) 300 mg/kg body weight			
ATE US (gases) 700 ppmV/4h			
ATE US (vapors)	3 mg/l/4h		
ATE US (dust, mist)	0.5 mg/l/4h		

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methanol (67-56-1)	
LD50 oral rat	1187 – 2769 mg/kg body weight (BASF test, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s))
LC50 Inhalation - Rat 128 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))	
ATE US (oral)	1187 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h
Skin corrosion/irritation	: Not classified
	рН: 7.2
Serious eye damage/irritation	: Not classified
	рН: 7.2
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
formaldehyde (50-00-0)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

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

formaldehyde (50-00-0)		
LC50 fish 1 6.7 mg/l (96 h, Morone saxatilis, Static system, Salt water, Experimental value, Lethal)		
EC50 Daphnia 1	5.8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia pulex, Static system, Fresh water, Experimental value, Locomotor effect)	
LC50 fish 2	62 (62 – 109) mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
ErC50 (algae)	4.89 – 6.61 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)	
NOEC chronic fish	≥ 48 mg/l Test organisms (species): Oryzias latipes Duration: '28 d'	
methanol (67-56-1)		
LC50 fish 1	15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)	
EC50 Daphnia 1	18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect)	
NOEC (chronic)	208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	

12.2. Persistence and degradability

formaldehyde (50-00-0)		
Persistence and degradability	Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.64 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.06 g O ₂ /g substance	
ThOD	1.068 g O ₂ /g substance	
methanol (67-56-1)		
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	$0.6 - 1.12 \text{ g } O_2/\text{g substance}$	
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance	

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methanol (67-56-1)		
	ThOD	1.5 g O ₂ /g substance

12.3. Bioaccumulative potential

formaldehyde (50-00-0)		
BCF fish 1	< 1 (1 h, Flow-through system, Salt water, Weight of evidence)	
Partition coefficient n-octanol/water (Log Pow)	(Log Pow) 0.35 (Calculated, KOWWIN, 25 °C)	
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).		
methanol (67-56-1)		
BCF fish 1	1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)	
Partition coefficient n-octanol/water (Log Pow)	 -0.77 (Experimental value) Low potential for bioaccumulation (BCF < 500). 	
Bioaccumulative potential		

12.4. Mobility in soil

formaldehyde (50-00-0)		
Surface tension 73 mN/m (20 °C, Aqueous solution, 7.5 g/l)		
Ecology - soil Not applicable (gas). Toxic to flora.		
methanol (67-56-1)		
Surface tension	No data available in the literature	
Partition coefficient n-octanol/water (Log Koc) -0.89 – -0.21 (log Koc, Calculated value)		
Ecology - soil	Highly mobile in soil.	

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.Additional information: Flammable vapors may accumulate in the container.

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

Hematology Reagent A - Buffer (pH 7.2)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
formaldehyde (50-00-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb
SARA Section 313 - Emission Reporting	1%

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methanol (67-56-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ 5000 lb	
SARA Section 313 - Emission Reporting	1%

15.2. International regulations

CANADA

formaldehyde (50-00-0)	
Listed on the Canadian DSL (Domestic Substances List)	
methanol (67-56-1)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

formaldehyde (50-00-0)	
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on EPA Hazardous Air Pollutant (HAPS)	
methanol (67-56-1)	
Listed on EPA Hazardous Air Pollutant (HAPS)	

15.3. US State regulations

This product can expose you to formaldehyde, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

formaldehyde (50-00-0)				
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)
Yes	No	No	No	40 μg/day
methanol (67-56-1)				
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	47000 μg/day
U.S California - Proposition 65 - Other information		NSRL: 23,000 µg/day (oral); 47,000 µg/day (inhalation)		
formaldehyde (50-00-0)	formaldehyde (50-00-0)			
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List				
methanol (67-56-1)				
U.S Massachusetts - Right To Know List				

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Full text of	H-phrases:
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H220	Extremely flammable gas
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H370	Causes damage to organs

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.