

SAFETY DATA SHEET

CellSolutions™ Red Lytic General Cytology Preservative

Manufactured by CellSolutions, LLC

Revision Number: SDS CR 2

SDS DATE: 3/2/15

SECTION 1: Substance Identification

1.1 Product identifiers:

Product name: CellSolutions™ Red Lytic General Cytology Preservative
Catalogue number: CR-102L, CR-102G
Brand: CellSolutions™

1.2 Relevant identified uses

In-vitro Diagnostics

1.3 Details of the supplier of the safety data sheet

Company: CellSolutions™
Address: 1100 Revolution Mill Dr., Ste 1
City, State, Zip: Greensboro, NC 27405 USA
Telephone: +1-336-510-1120
Fax: +1-336-510-1159

1.4 Emergency telephone number:

Emergency Phone #: +1-336-510-1120

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification [CLP]

Flammable liquid 3. Flammable liquid and vapour, H226
Acute Tox 4. Harmful if swallowed, in contact with skin or inhaled, H302+H312+H332
Eye Irritant 2. Causes serious eye irritation, H319
STOT SE 2. May cause damage to organs, H371

2.2 GHS label elements



Signal word Danger

Hazard statement(s)

H226 Flammable Liquid & Vapor
H302+H312+H332 Harmful if swallowed, in contact with skin or inhaled
H319 Causes Serious Eye Irritation
H336 May cause drowsiness and dizziness
H371 May cause damage to organs

Precautionary statement(s)

P102 Keep out of reach of children.
P210 Keep away from heat/sparks/open flames/hot surfaces – No Smoking.
P233 Keep container tightly closed.
P240 Ground /bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breath dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264 Wash hands, and anyother body part that has had contact, thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.

SAFETY DATA SHEET

CellSolutions™ Red Lytic General Cytology Preservative

Manufactured by CellSolutions, LLC

Revision Number: SDS CR 2

SDS DATE: 3/2/15

P271	Use only outdoors or in a well ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	If swallowed: Call a poison center or doctor/physician if you feel unwell.
P303+P361+P353	If on skin or hair: Remove/Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously for several minutes.
P309+P311	If exposed or if you feel unwell: Call a poison center or doctor/physician.
P330	Rinse mouth.
P337+P313	If eye irritation persists get medical advice/attention.
P370+P378	In case of fire: Use CO ₂ , powder or water spray.
P403+P235	Store in a well ventilated place. Keep cool.
P404	Store in a closed container.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.3 Other hazards

PBT and vBvP not applicable.

SECTION 3: Composition

3.2 Mixtures

Dangerous components

	Component	Classification [CLP]	% WT	
CAS-No. : 67-56-1 EC-No. : 200-659-6	Methanol	H225, Highly flammable liquid and vapour H301+311+331, Toxic if swallowed, in contact with skin or inhaled H370, Causes damage to organs	7-10%	
CAS-No. : 67-63-0 EC-No. : 200-661-7	Isopropyl alcohol	H225 Highly flammable liquid and vapour H319 Causes serious eye irritation H336 May cause drowsiness or dizziness	20-30%	
CAS-No. : 107-21-1 EC-No. : 203-473-3	Ethylene glycol	H302, Harmful if swallowed	5-7.5%	
CAS-No. : 50-00-0 EC-No. : 200-001-8	Formaldehyde	H227, Combustible liquid H301+H311+H331, Toxic if swallowed, in contact with skin or if inhaled H314, Causes severe burns and eye damage H317 May cause an allergic skin reaction H351 Suspected of causing cancer H370 Causes damage to organs H402 Harmful to aquatic life	5-7.5%	

SAFETY DATA SHEET

CellSolutions™ Red Lytic General Cytology Preservative

Manufactured by CellSolutions, LLC

Revision Number: SDS CR 2

SDS DATE: 3/2/15

SECTION 4: First-aid Measures

4.1 Description of first aid measures

GENERAL ADVICE: Immediately remove contaminated clothing. Move out of dangerous area. Symptoms of poisoning may show after several hours. Show this SDS to physician.

INHALATION: Remove to fresh air and rest
If recovery is not rapid call for prompt medical attention
Show this safety data sheet to medical personnel

EYES: Irrigate with water for at least 15 minutes
Take care not to wash chemical from one eye to another
Get prompt medical attention

SKIN: Remove contaminated clothing
Wash with soap/cleanser and rinse with plenty of water
If irritation persists, obtain medical attention

INGESTION: Do not induce vomiting - beware of aspiration if vomiting occurs
Give plenty of water to drink
Seek medical attention immediately

4.2 Most important symptoms and effect, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing media

Suitable Extinguishers: Alcohol resistant foam
Dry powder
Carbon dioxide
Water spray / fog

Unsuitable extinguishers: Direct water jets

5.2 Special hazards arising from the mixture

Toxic gases may be produced.

5.3 Advice for firefighters

Do not breathe decomposition products and fumes.
Use approved self-contained breathing apparatus.
Wear fire retardant clothing.
Use water spray to cool containers.
Danger of flashback exists.
Prevent runoff from fire control from entering waterways.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment (Gloves – polyethylene, nitrile or rubber gloves. Eye protection – use goggles or safety glasses)
Use an appropriate respiratory device for large spills and in confined spaces.
Remove sources of ignition.
Mark area and warn personnel.
See section 5 for fire fighting measures.
See section 7 for additional information on handling.

SAFETY DATA SHEET

CellSolutions™ Red Lytic General Cytology Preservative

Manufactured by CellSolutions, LLC

See section 8 for additional information on personal protection equipment.

Revision Number: SDS CR 2

SDS DATE: 3/2/15

6.2 Environmental precautions

Contain spills if safe to do so. Do not allow to enter waterways.

6.3 Methods and materials for containment and cleaning up

Remove any sources of ignition. Ensure adequate ventilation. Contain spills. Absorb with a liquid-binding (sand or absorbant granule) or absorbing material and place in a container for disposal according to section 13 and local regulations.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Protective measures

Protect from electrostatic charges.

Ensure adequate ventilation.

Avoid inhalation of vapour.

Avoid eye and skin contact.

Wear appropriate protective equipment.

Polyethylene, Nitrile, or rubber gloves

Protective clothing

Eye protection such as goggles or safety glasses

Keep out of reach of children.

Prevent aerosol formation.

7.2 Conditions for safe storage

Keep away from ignition sources – NO SMOKING.

Store in a cool, dry, well ventilated area at temperatures between 2°C - 30°C.

Store in tightly closed containers.

Keep out of reach of children.

7.3 Specific end use(s)

None other than the use mentioned in section 1.2.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Component	CAS No.	Value	Control parameter	Basis
Methanol	67-56-1	TWA	200 ppm 260 mg/m ³	OSHA
Isopropyl alcohol	67-63-0	TWA	400 ppm 980 mg/m ³	OSHA
Ethylene glycol	107-21-1	TLV	100 mg/m ³ (short-term value)	ACGIH
Formaldehyde	50-00-0	TWA	0.75 ppm ST 2 ppm	NIOSH

8.2 Exposure controls

Personal protective equipment

Polythene, nitrile or rubber gloves. Wash hands after use. Wash area(s) immediately if mixture comes into contact with skin.

Suitable overalls, apron, or lab coat. Remove any contaminated clothing immediately.

Goggles or safety glasses.

Air respirator that has been tested and approved under government standards in poorly ventilated areas. Use mechanical ventilation if possible.

Environmental control

Store containers with lid closed. Contain spill and prevent further spillage if safe to do so.

SAFETY DATA SHEET

CellSolutions™ Red Lytic General Cytology Preservative

Manufactured by CellSolutions, LLC

Revision Number: SDS CR 2

SDS DATE: 3/2/15

SECTION 9: Physical and Chemical Properties

APPEARANCE	: Clear, pink/red liquid
ODOR	: Formaldehyde Characteristic
pH	: 7.5
BOILING POINT / RANGE	: 82°C
FLASH POINT	: 25°C
FLAMMABILITY	: Risk of flammability at temperatures greater than flash point
AUTOFLAMMABILITY	: No data available
EXPLOSIVE PROPERTIES	: No data available
OXIDISING PROPERTIES	: No data available
VAPOUR PRESSURE	: No data available
RELATIVE DENSITY	: 0.97
SOLUBILITY	: Miscible in water
VAPOUR DENSITY	: No data available
VISCOSITY	: No data available
EVAPORATION RATE (Bu Ac = 1)	: No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable at normal temperatures (2°C - 30°C).

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Conditions to avoid: high temperature, sources of ignition & direct sunlight.

10.5 Incompatible materials

Materials to avoid: oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 (Lethal Dose, 50 percent) values:

Component	CAS No.		Value
Methanol	67-56-1	Oral – LD50	5628 mg/kg (rat)
Formaldehyde	50-00-0	Oral – LD50	42 mg/kg (rat)
Isopropyl alcohol	67-63-0	Oral – LD50	5045 mg/kg (rat)
		Inhalation – LD50	16000ppm (rat)
		Dermal – LD50	12800 mg/kg (rabbit)

Acute effects

Routes of exposure: inhalation, skin absorption and ingestion

Ingestion: Nausea, vomiting and stomach pains

Eyes: Irritation

Skin: Irritation. Repeated skin contact may cause dermatitis

Inhalation: Irritation. May cause depression of central nervous system.

Unconsciousness can occur in severe cases

Chronic effects

Chronic effects: May cause kidney and liver damage

SAFETY DATA SHEET

CellSolutions™ Red Lytic General Cytology Preservative

Manufactured by CellSolutions, LLC

Revision Number: SDS CR 2

SDS DATE: 3/2/15

Carcinogenic categories

International Agency for Research on Cancer (IARC):

67-63-0	Isopropyl alcohol	3
50-00-0	Formaldehyde	1

National Toxicology Program (NTP)

50-00-0	Formaldehyde	R
---------	--------------	---

Seek Medical attention.

SECTION 12: Ecological Information

12.1 Toxicity

No specific data available.

12.2 Persistence and degradability

Solvent is readily biodegradable.

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

12.4 Mobility in soil

Mobile volatile liquid. May penetrate soil groundwater causing contamination.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

No additional adverse effects known.

SECTION 13: Disposal Considerations

13.1 Disposal considerations

Product

Must be treated as a fire hazard.

Incinerate through a licensed site.

Do not discharge into drains or watercourses.

Dispose through properly licensed contractors.

Dispose of in accordance with 40 CFR 261.3, state and local requirements.

Soiled Packaging

Dispose of according to local regulations

SECTION 14: Transport Information

14.1 UN/SI number

UN 1992

14.2 UN proper shipping name

Flammable Liquids, Toxic, n.o.s. (Methanol, Isopropyl alcohol)

14.3 Transport hazard classes

3 Flammable Liquids

IATA/IACO: Class 3 (6.1)

IMO: Class 3.3

14.4 Packaging group

III

SAFETY DATA SHEET

CellSolutions™ Red Lytic General Cytology Preservative

Manufactured by CellSolutions, LLC

IATA/IACO: III

IMO: III

ADR/RID: Class III

Revision Number: SDS CR 2

SDS DATE: 3/2/15

14.5 Environmental hazards

No specific data available.

HAZCHEM/Kemler Code: 3W/36

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for mixture

SARA Section 313 (specific toxic chemical listing)

67-56-1	Methanol
67-63-0	Isopropyl alcohol
107-21-1	Ethylene glycol
50-00-0	Formaldehyde

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 335 (extremely hazardous substances)

50-00-0	Formaldehyde
---------	--------------

Carcinogenic categories (TLV established by ACGIH)

67-63-0	Isopropyl alcohol	A4
107-21-1	Ethylene glycol	A4
50-00-0	Formaldehyde	A2

Massachusetts Right to Know Components

67-56-1	Methanol
67-63-0	Isopropyl alcohol
50-00-0	Formaldehyde
107-21-1	Ethylene glycol

New Jersey Right to Know Components

67-56-1	Methanol
67-63-0	Isopropyl alcohol
50-00-0	Formaldehyde
107-21-1	Ethylene glycol

Pennsylvania Right to Know Components

67-56-1	Methanol
67-63-0	Isopropyl alcohol
50-00-0	Formaldehyde
107-21-1	Ethylene glycol

OTHER REGULATIONS

Health and Safety at Work etc. Act 1974

Control of Substances Hazardous to Health Regulations 1994

Environmental Protection Act 1990

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier.

HAZARD & PRECAUTION STATEMENTS

H226	Flammable Liquid & Vapor
H302+H312+H332	Harmful if swallowed, in contact with skin or inhaled
H319	Causes Serious Eye Irritation
H336	May cause drowsiness and dizziness
H371	May cause damage to organs

SAFETY DATA SHEET

CellSolutions™ Red Lytic General Cytology Preservative

Manufactured by CellSolutions, LLC

Revision Number: SDS CR 2

SDS DATE: 3/2/15

P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces – No Smoking.
P233	Keep container tightly closed.
P240	Ground /bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breath dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264	Wash hands, and anyother body part that has had contact, thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	If swallowed: Call a poison center or doctor/physician if you feel unwell.
P303+P361+P353	If on skin or hair: Remove/Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously for several minutes.
P309+P311	If exposed or if you feel unwell: Call a poison center or doctor/physician.
P330	Rinse mouth.
P337+P313	If eye irritation persists get medical advice/attention.
P370+P378	In case of fire: Use CO2, powder or water spray.
P403+P235	Store in a well ventilated place. Keep cool.
P404	Store in a closed container.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

SECTION 16: Other Information

The information contained in this Safety Data Sheet is accurate to the best of our knowledge. It does not represent any guarantee of the properties of the product. All materials may present unknown hazards and should be used and handled with caution. Niether CellSolutions or its affiliates assumes any liabilities whatsoever for the accuracy or completeness of the informations contained within and shall not be held liable for any damage resulting from handling or from contact with the above product.

Abbreviations:

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMO: International Maritime Organization

ADR: Accord europeen sur le transport de marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

TWA: Time Weighted Avverage

OSHA: Occupation Safety and Health Administration

NIOSH: National Institute for Occupational Safety and Health

LD50: Lethal dose, 50 percent

SARA: Superfund Admendments and Reauthorization Act

ACGIH: American Conference of Governmental Industrial Hygienists