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**SECTION 1: Substance Identification**

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**1.1 Product identifiers:**

Product name: CellSolutions™ General Cytology Preservative  
Catalogue number: C-101; C-101-25; C-101-200; C-101-500; C-101L; C-101G  
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

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**SECTION 2: HAZARD IDENTIFICATION**

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**2.1 Classification of the substance or mixture**

**GHS Classification [CLP]**

Flammable Liquid 3, H226 (Flammable liquid & Vapour)

**2.2 GHS label elements**



**Signal word** Warning

**Hazard statement(s)**

H226 Flammable liquid & vapour

**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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 If on skin or hair: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P370+P378 In case of fire: Use for extinction:CO2, powder or water spray.  
P403+P235 Store in a well ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

**2.3 Other hazards**

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PBT and vBvP not applicable.

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## SECTION 3: Composition

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### 3.2 Mixtures

#### Dangerous components

	Component	Classification [CLP]	% WT	
CAS-No. : 64-17-5 EC-No. : 200-578-6	Denatured Ethanol	H225, Highly flammable liquid & vapour	22.5%	

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## SECTION 4: First-aid Measures

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### 4.1 Description of first aid measures

<b>GENERAL ADVICE:</b>	Immediately remove contaminated clothing. Move out of dangerous area. Show this SDS to physician.
<b>INHALATION:</b>	Remove to fresh air and rest If recovery is not rapid call for prompt medical attention Show this safety data sheet to medical personnel
<b>EYES:</b>	Irrigate with water for at least 15 minutes Take care not to wash chemical from one eye to another Get prompt medical attention
<b>SKIN:</b>	Remove contaminated clothing Wash with soap/cleanser and rinse with plenty of water If irritation persists, obtain medical attention
<b>INGESTION:</b>	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.

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## SECTION 5: Fire-fighting Measures

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### 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

No further relevant information available.

### 5.3 Advice for firefighters

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- 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.

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### SECTION 6: Accidental Release Measures

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#### 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.
- See section 8 for additional information on personal protection equipment.

#### 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.

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### SECTION 7: Handling and Storage

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#### 7.1 Precautions for safe handling

##### Protective measures

- 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.

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### SECTION 8: Exposure Controls/Personal Protection

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### 8.1 Control parameters

Component	CAS No.	Value	Control parameter	Basis
Denatured Ethanol	64-17-5	TWA	1000ppm 1900 mg/m <sup>3</sup>	OSHA

### 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.

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## SECTION 9: Physical and Chemical Properties

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**APPEARANCE** : Clear, colorless liquid  
**ODOR** : Mild alcoholic  
**pH** : 7.2  
**BOILING POINT / RANGE** : 86°C  
**FLASH POINT** : 37°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** : 0.98  
**SOLUBILITY** : Miscible in water  
**VAPOUR DENSITY** : No data available  
**VISCOSITY** : No data available  
**EVAPORATION RATE (Bu Ac = 1)**: No data available

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## SECTION 10: Stability and Reactivity

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### 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.

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## SECTION 11: Toxicological Information

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### 11.1 Information on toxicological effects

#### Acute toxicity

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

Component	CAS No.		Value
Denatured Ethanol	64-17-5	Oral – LD50	3450 mg/kg (MOU) 7060 mg/kg (rat)

#### 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

#### Carcinogenic categories

None known.

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

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SECTION 14: Transport Information

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**14.1 UN number**

N/A

**14.2 UN proper shipping name**

N/A

**14.3 Transport hazard classes**

N/A

**14.4 Packaging group**

N/A

**14.5 Environmental hazards**

N/A

Not classified as hazardous for Transport by DOT regulations in accordance with 49 CFR § 173.150 (e) that states an aqueous solution containing 24% or less of alcohol with no other hazardous material is not subject to the requirements when it contains no less than 50% water.

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**SECTION 15: Regulatory Information**

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

SARA Section 313 (specific toxic chemical listing)

64-17-5 Ethanol

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

California Proposition 65 – Chemicals known to cause developmental toxicity

64-17-5 Ethanol

**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 & vapour
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	If on skin or hair: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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P403+P235	Store in a well ventilated place. Keep cool.
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**SECTION 16: Other Information**

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Catalog # C-101 10mL vial has the statement 'R11' on the vial label. This is a former risk phase under DPD label guidelines indicating 'flammable'. This will be replaced by the hazard statement code H226. This implementation will occur as a phase in, as current inventory is depleted.

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. Neither 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 Average

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