

## MATERIAL SAFETY DATA SHEET

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

## **1.1 Product identifiers**

Product name: CYTOLOGICAL FIXATIVE SPRAY Brand: Solmedia Ltd

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

#### 1.3 Details of the supplier of the safety data sheet

<ul> <li>Name of Supplier:</li> <li>Address of Supplier:</li> </ul>	Solmedia Ltd. Unit 2, Vernon Drive Battlefield Enterprise Park
	Shrewsbury
	SY1 3TF
	UK
- Telephone:	0844 80 80 900
- Email:	labsupplies@solmedialtd.com

#### **1.4 Emergency telephone number**

Emergency Phone # +44 (0)844 80 80 900

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2H225 Highly flammable liquid and vapour.Eye irritation, category 2H319 Causes serious eye irritation.Specific target organ toxicity - single exposure, category 3 H336 May cause drowsiness or dizziness.

## 2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





Signal Words:

Danger

Hazard statements:	H225: Highly flammable liquid and vapour.
	H319: Causes serious eye irritation.
	H336: May cause drowsiness or dizziness.

## **Precautionary statements:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P304+P340: IF INHALED: remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE / doctor if you feel unwell.

Contains: PROPAN-2-OL

## 2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Information not relevant

## **3.2 Mixtures**

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
PROPAN-2-OL		
CAS 67-63-0 EC 200-661-7 INDEX 603-117-00-0	80 ≤ x < 95	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

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The full wording of hazard (H) phrases is given in section 16 of the sheet.

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

## 4.1 Description of first aid measures

**Eye contact:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists seek medical advice.

**Skin contact**: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

**Inhalation:** Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately

**Ingestion**: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person,

## 4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

**Suitable Extinguishing Equipment:** Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

**Unsuitable Extinguishing Equipment:** Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

#### 5.2 Special hazards arising from the substance or mixture

**Hazards caused by Exposure in the Event of Fire:** Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

## **5.3 Advice for firefighters**

**General Information:** Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.



**Special Protective Equipment for Fire-Fighters**: Normal fire-fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

## **6.2** Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

## 6.3 Methods and materials for containment and cleaning up

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with



caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

## 7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. Store in a well-ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

## 7.3 Specific end use(s)

Information not available.

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

**Regulatory References:** 

- ESP España INSHT Límites de exposición profesional para agentes químicos en España 2017
- GBR United Kingdom EH40/2005 Workplace exposure limits
- GRC Ελλάδα ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 9 Φεβρουαρίου

2012

TLV-ACGIH ACGIH 2017

#### **PROPAN-2-OL**

## **Threshold Limit Value**

Туре	Country	8 hour TWA		15 min. STEL	
		mg/m3	ppm	mg/m3	ppm
VLA	ESP	500	200	1000	400
WEL	GBR	999	400	1250	500
TLV	GRC	980	400	1225	500
TLV-ACG1H		492	200	983	400

## Legend:

(C) = CEILING; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

## 8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.



Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**Hand protection:** Protect hands with category III work gloves (see standard EN 374). The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

**Skin protection:** Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

Eye protection: Wear airtight protective goggles (see standard EN 166).

**Respiratory protection:** If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances is present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**Environmental Exposure Controls:** The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

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

## 9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Characteristic
Odour threshold	Not available



	рН	Not available
	Melting point / freezing point	-89,5 °C
	Initial boiling point	82 °C
	Boiling range	Not available
	Flash point	12,0 °C
	Evaporation Rate	Not available
	Flammability of solids and gases	Not available
	Lower inflammability limit	Not available
	Upper inflammability limit	Not available
	Lower explosive limit	2 % (V/V)
	Upper explosive limit	12,7 % (V/V)
	Vapour pressure	43,2 hPa a 20°C
	Vapour density	Not available
	Relative density	0,858 Kg/l
	Solubility	Soluble in water
	Partition coefficient: n-octanol/water	0,05
	Auto-ignition temperature	425 °C
	Decomposition temperature	Not available
	Viscosity	Not available
	Explosive properties	Not available
	Oxidising properties	Not available
9.2 Other safety information%		
	VOC (Directive 2010/75/EC):	93,00 %
	VOC (volatile carbon):	55,71 %

# SECTION 10: Stability and reactivity

## 10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

## **10.2 Chemical stability**



The product is stable in normal conditions of use and storage.

## 10.3 Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

## 10.4 Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

## **10.5 Incompatible materials**

Information not available

## **10.6 Hazardous decomposition products**

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## **SECTION 11: Toxicological information**

## **11.1 Information on toxicological effects**

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

## Interactive effects

Information not available

#### **Acute Toxicity**

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: Not classified (no significant component)

## PROPAN-2-OL

LD50 (Oral) 4710 mg/kg Rat LD50 (Dermal) 12800 mg/kg Rat LC50 (Inhalation) 72,6 mg/l/4h Rat

## **SKIN CORROSION / IRRITATION**

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Does not meet the classification criteria for this hazard class

**SERIOUS EYE DAMAGE / IRRITATION** 

Causes serious eye irritation

**RESPIRATORY OR SKIN SENSITISATION** 

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### **REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

**STOT - SINGLE EXPOSURE** 

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Information not available

#### 12.2 Persistence and degradability

PROPAN-2-OL

Rapidly degradable

## 12.3 Bioaccumulative potential

PROPAN-2-OL

Partition coefficient: n-octanol/water 0,05

## 12.4 Mobility in soil

Information not available



## 12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.his product is not identified as a PBT/vPvB substance.

## 12.6 Other adverse effects

Information not available

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Reuse:** when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

**Disposal**: must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

**Contaminated packaging:** Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## **SECTION 14: Transport information**

#### 14.1 UN number

ADR / RID, IMDG, IATA: 1219

#### 14.2 UN proper shipping name

ADR / RID:	ISOPROPANOL (ISOPROPYL ALCOHOL)
IMDG:	ISOPROPANOL (ISOPROPYL ALCOHOL)
IATA:	ISOPROPANOL (ISOPROPYL ALCOHOL)

## 14.3 Transport hazard class(es)

ADR / RID:	Class: 3 Label: 3
IMDG:	Class: 3 Label: 3
IATA:	Class: 3 Label: 3

## 14.4 Packaging group

ADR / RID, IMDG, IATA: II1

#### 4.5 Environmental hazards

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ADR / RID: NO

IMDG: NO

IATA: NO

## 14.6 Special precautions for user

ADR/RID:	HIN - Kemler: 33 Special Provision: -	Limited Quantities:1 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, S-D	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity:	60 L Packaging instructions: 364
	Pass.:	Maximum quantity:	5 L Packaging instructions: 353
	Special Instructions:	A180	

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

## **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c

<u>Restrictions relating to the product or contained substances pursuant to Annex XVII to EC</u> <u>Regulation 1907/2006</u>

<u>Product</u>

Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH) :None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.



## 15.2 Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

## **SECTION 16: Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value

- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).



## **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

## Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.