
MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product Name: Papanicolaou Stain EA50
Product Code: HST501
Brand: Solmedia Ltd

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

Identified uses: Manufacture of substances. Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Solmedia Ltd.
Address of Supplier: 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**

Classification under CLP: Regulation (EC) No. 1272/2008 [CLP]

Hazard Class	Hazard Category	Hazard Statement
Specific target organ toxicity — single exposure	Category 2	H371
Flammable liquid	Category 2	H225
Acute toxicity, inhalation	Category 4	H332
Skin sensitiser	Category 1	H317

Most important adverse effects:

Highly flammable liquid and vapour. Toxic in contact with skin or if inhaled. Causes damage to organs [nervous system] [oral].

2.2 Label elements

Hazard statements: H225: Highly flammable liquid and vapour.
H317 May cause allergic skin reaction.

H332 Harmful if inhaled.

H371 May cause damage to the optic nerve & central nervous system by the oral route.

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS06: Skull and crossbones

GHS08: Health hazard



Precautionary statements:

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

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician

P403+P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

Dyes and Stains by their physical nature may result in permanent staining if in contact with skin and clothing.

PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients Classification according to Regulation (EC) No. 1272/2008 [CLP]

	Classification (Regulation (EC) No 1272/2008 [CLP])
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Hazardous Components		Amount [%]	Hazard class/ Hazard category	Hazard Statements
Name:	Ethanol	84-88%	FLAM. LIQ. CAT. 2.	H355
CAS NO.	64-17-5			
EC-NO.	200-578-6			
Name:	Eosin yellowish	<0.5%	EYE IRRIT. CAT. 2. SKIN SENS. CAT. 1.	H319 H317
CAS NO.	241-409-6			
EC-NO.	17372-87-1			
Name:	Methanol	3-5%	FLAM. LIQ. CAT. 2. ACUTE TOX. CAT. 3. STOT. SE. CAT. 1.	H225 H301, H311 H370
CAS NO.	67-56-1			
EC-NO.	200-659-6			
Name:	Phosphotungstic acid hydrate	<0.2%	SKIN CORR. CAT. 1. EYE DAM. CAT. 1	H314 H318
CAS NO.	235-087-6			
EC-NO.	12501-23-4			

Refer to section 16 for additional classification information.

SECTION 4: First aid measures

4.1 Description of first aid measures

If exposed keep patient calm and seek immediate medical attention.
Show this safety data sheet to doctor/physician in attendance.

Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

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.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Rinse out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical advice/attention..

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use alcohol-resistant foam or fine water spray, dry chemical powder or carbon dioxide. For large fires immediately alert fire emergency services. Evacuate personnel to safe area.

5.2 Special hazards arising from the substance or mixture

May emit toxic fumes under fire: Carbon oxides, Nitrogen oxide.

5.3 Advice for firefighters

Avoid contact with skin and eyes. Wear self-contained breathing apparatus /protective clothing. Cool surrounding with water spray. Heating causes a rise in pressure, risk of bursting /explosion. Vapour is slightly heavier than air. Beware of backfire. Stay on upwind side. Use only explosion proved equipment. In case of violent hazardous effect: Wear appropriate tightly sealed suit.

5.4 Further information

Class of fire: B Liquid or melting substances.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Observe all warning labels on container. Ensure adequate ventilation. Avoid breathing vapours, mist or gas. Wear respiratory protection and other personal protective equipment provided. Shut off all naked flames and other sources of ignition. Vapour is slightly heavier than air, and may accumulate in low areas to form explosive concentrations. Prevent build-up of electrostatic charge. Wash hands thoroughly after handling.

6.2 Environmental precautions

Avoid discharge into the environment. Do not let undiluted product or large quantities enter drains or water course. Prevent further leakage or spillage where safe to do so. Inform responsible authorities as appropriate.

6.3 Methods and materials for containment and cleaning up

Absorb spillage with appropriate absorbent material e.g. vermiculite or sand; and dispose into suitably labelled closed containers for disposal according to local regulations. Use non-sparking tools. If using a vacuum cleaner ensure unit is spark-proof /electrically protected. Avoid ignition of vapour. Wash spillage site with water and appropriate detergent.

6.4 Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Observe all warning labels on container. Use only closed apparatus. Ensure adequate ventilation. Avoid breathing vapours, mist or gas. Wear appropriate personal protective equipment provided. Shut off all naked flames and other sources of ignition. Take precaution to avoid exposure. Use leak-proof equipment with exhaust for refilling or transfer. Avoid splashing. Use solvent resistant utensils. Prevent build-up of electrostatic charge. Beware of vapours (slightly heavier than air) accumulating in low areas to form explosive concentrations. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Recommend restriction to professional users only.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

TWA Time Weighted Average Concentration (Long Term Exposure Limit)

STEL Short Term Exposure Limit

LTEL Long Term Exposure Limit

Component	CAS-No	Value	Control Parameters	Basis
Methanol	67-56-1	TWA LTEL – 8h STEL – 15mins	200ppm -266mg/m ³ 250ppm -333mg/m ³	UK.EH40 WEL- Workplace Exposure limit
Phosphotungstic acid hydrate	12501-23-4	TWA LTEL – 8h STEL – 15mins	5 mg/m ³ 10 mg/m ³	UK.EH40 WEL- Workplace Exposure limit
Ethanol	64-17-5	TWA LTEL – 8h	100ppm-1920mg/m ³	UK.EH40 WEL- Workplace Exposure limit

DNEL / PNEC

Workers

Component	Route of Exposure	Acute Effects local	Acute Effects systemic	Chronic Effects Local	Chronic Effects systemic
Methanol CAS-No 67-56-1	Oral	na	8 mg/kg bw/day	na	8 mg/kg bw/day
	Inhalation	50 mg/m ³			
	Dermal	na	8 mg/kg bw/day	na	8 mg/kg bw/day
Ethanol CAS-No 64-17-5	Oral	na			
	Inhalation	na	na	na	950 mg/m ³
	Dermal	na	na	na	343mg/kg bw/day**

** Repeated dose toxicity – NOAEL Oral Value: 8238 mg/kg bw/day

8.2 Exposure controls

Engineering measures:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Wash hands before and after breaks and at the end of workday.

Respiratory protection:

It is recommended that full-face respirator or air hood be used where local exhaust ventilation is inadequate to reduce the atmospheric level to below the national exposure limits for the component substances. Use respirator and components tested and approved to appropriate government standards such as NIOSH (US) or EN 143 / EN 14387 (EU).

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with application laws and good laboratory practises. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Full contact - Material: Nitrile rubber. Minimum layer thickness: 0.11mm. Break through time: 8 hrs. Splash contact - Material: Nitrile rubber. Minimum layer thickness: 0.11mm. Break through time: 8hrs. If used in solution, or mixed with substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. Use proper glove removal technique to avoid skin contact with substance/ mixture. Dispose of contaminated gloves after use in accordance with local and national applicable laws and good laboratory practises. Wash and dry hands thoroughly after handling

Eye protection:

Avoid exposure to sprays/mist/aerosols. Use face shield and/or safety goggles for eye protection complying with appropriate government standards such as EN166 (EU).

Skin protection:

Promptly remove any contaminated clothing and clean appropriately before reuse. Use chemically protective clothing with closed cuffs and closed neck, appropriate to the concentration /amount of the dangerous substance at the specific workplace.

Environmental:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Thermal Hazards:

No specific thermal hazard. Product is stored at room temperature.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State:	Liquid
Colour:	Pink-Green
Odour:	Alcoholic
Melting/freezing point:	No data available
Initial boiling point /boiling range:	No data available
Flammability:	No data available
Upper/lower explosion limits:	Not applicable
Flash point:	Approx. 13°C (untested)
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available
pH:	Aprox. 4.6
Kinematic viscosity:	Not applicable
Solubility at 20°C:	Water Miscible Fat No data available
Partition coefficient n-octanol/water	(log value): Not applicable
Vapour pressure:	No data available
Density and/or relative density:	No data available
Relative vapour density:	Not applicable
Particle characteristics:	Not applicable

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid

Heat, naked flames, other sources of ignition. Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

Products of Carbon Oxides and Nitrogen Oxides may be products produced on burning or heating. The nature of released decomposition products has not been determined.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

Toxicokinetics – Mixture

(a) Acute toxicity Based on available data; the classification criteria are met.

HS630 - Harmful if inhaled.

Methanol

Oral, human: LDLo=300mg/kg

Inh, monkey: LCLo=1000ppm

Derm, monkey: LDLo= 393mg/kg

(b) Skin corrosion/irritation Based on available data; the classification criteria are not met.

Phosphotungstic Acid Causes severe skin burns.

(c) Serious eye damage/eye irritation

Based on available data; the classification criteria are not met

Eosin Y Causes eye irritation.

Phosphotungstic Acid Causes serious eye damage

(d) Respiratory or skin sensitization

Based on available data, the classification criteria are met.

HS630 - May cause allergic skin reaction

Germ cell mutagenicity Based on available data; the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Tumourigenic RTECS criteria:

Based on available data, the classification criteria are not met.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC or EC.

Reproductive toxicity Based on available data; the classification criteria are not met.

STOT Specific target organ

toxicity - single exposure Based on available data, the classification criteria are met.

HS630 - May cause damage to the optic nerve & central nervous system by the oral route.

STOT Specific target organ

toxicity - repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data; the classification criteria are not met.

Symptoms / routes of exposure

Skin contact: May be harmful in prolonged contact with skin. Readily adsorbed. May cause skin irritation and/or allergic skin reaction.

Eye contact: May be harmful if in contact with eyes. May cause eye irritation.

Ingestion: May be harmful if swallowed. Contains components which may cause vomiting or other adverse effects such as diarrhoea.

Inhalation: Harmful if inhaled. May cause respiratory tract irritation. There may be shortness of breath with a burning sensation in the throat. May cause drowsiness and dizziness. There may be loss of consciousness.

Delayed / immediate effects:

Immediate effects can be expected after short-term exposure.

Other information: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Signs and Symptoms of Exposure:

Short term exposure may result in drowsiness, headache, confusion, sickness, abdominal pain, possibly within 30 minutes of exposure.

11.2 Information on other hazards

Endocrine disrupting properties:

No component of this mixture is classified as endocrine disrupting according to Regulation (EU) No 2017/2100.

SECTION 12: Ecological information

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

12.1 Toxicity

Not classified as acutely toxic to aquatic organisms. Adverse ecological effects cannot be excluded in the event of improper handling or disposal.

Toxicity to fish LC50 – *Oryzias latipes* – 1,200 mg/l – 48h (CAS No 17372-87-1).

Toxicity to Daphnia and other aquatic invertebrates

EC50 - *Daphnia magna* (Water flea) = 9000mg/litre – 24hrs IMS

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

Do not let undiluted product or large quantities enter drains or water course. Inform responsible authorities as appropriate

12.4 Mobility in soil

Soluble in water.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvBs.

12.6 Endocrine disrupting properties

No component of this mixture is classified as endocrine disrupting according to Regulation (EU) No 2017/2100.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Disposal operations: Dispose of non-recyclable substances via a licensed waste material processor in accordance with local authority requirements.

Disposal of packaging: Dispose of as unused product.

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**

UN1170

14.2 UN proper shipping name

Ethanol Solution

14.3 Transport hazard class(es)

3

14.4 Packaging group

2

14.5 Environmental hazards

Environmentally hazardous:

No

Marine pollutant:

No

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

This Safety Data Sheet complies with the requirements of Regulations (EC) No. 1907/2006 and its amendments (EU) No. 453/2010 & (EU) No. 2015/830; and (EC) No. 1272/2008.

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

All components are listed as existing substances in Europe

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3:

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H370 Causes damage to organs.

H319 Causes serious eye irritation.

H317 May cause allergic skin reaction.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage

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.