



according to Regulation (EC) No 1907/2006

# Papanicolaou Sol. 3b (Polychrome Solution EA 50)

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

#### 1.1. Product identifier

Papanicolaou Sol. 3b (Polychrome Solution EA 50)

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

### Use of the substance/mixture

Use as laboratory reagent

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

Company name: Waldeck GmbH & Co KG

Division Chroma Havixbecker Str. 62 D-48161 Münster

Post-office box: 410180

D-48065 Münster

Telephone: +49(0)180/2247662 Telefax: +49(0)180/1247662

Responsible Department: Labor

Mo. - Do.: 08.00 - 17.00 Uhr, Fr.: 08.00 - 15.00 Uhr

**1.4. Emergency telephone** +49(0)180/2247662

number:

Street:

Place:

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2 Acute toxicity: Acute Tox. 4 Acute toxicity: Acute Tox. 4 Acute toxicity: Acute Tox. 4

Specific target organ toxicity - single exposure: STOT SE 1

Hazard Statements:

Highly flammable liquid and vapour.

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

Causes damage to organs.

# 2.2. Label elements

# Regulation (EC) No. 1272/2008

# Hazard components for labelling

methanol

Signal word: Danger

Pictograms:







## **Hazard statements**

H225 Highly flammable liquid and vapour.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H370 Causes damage to organs.





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### **Precautionary statements**

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

smoking.

P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

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

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

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

### 2.3. Other hazards

No information available.

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

#### 3.2. Mixtures

## **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulati	on (EC) No. 1272/2008 [CLP]	•		
67-56-1	methanol				
	200-659-6				
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H301 H311 H331 H370				
64-17-5	ethanol, ethyl alcohol				
	200-578-6	603-002-00-5			
	Flam. Liq. 2; H225				
12501-23-4	Phosphotungstic acid				
	215-682-7				
	Skin Corr. 1B; H314				
64-19-7	Acetic acid 100 %				
	200-580-7				
	Flam. Liq. 3, Skin Corr. 1A; H226 H314				

Full text of H and EUH statements: see section 16.

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

# 4.1. Description of first aid measures

## **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

Provide fresh air. Medical treatment necessary.

# After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap.

### Waldeck GmbH & Co KG



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## After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

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

May cause drowsiness or dizziness.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

## Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

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

Highly flammable. Vapours can form explosive mixtures with air.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

#### 6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

## 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

### 7.1. Precautions for safe handling

### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

## 7.2. Conditions for safe storage, including any incompatibilities





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## Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

### Further information on storage conditions

storage temperature: at room temperature

### 7.3. Specific end use(s)

Use as laboratory reagent

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-19-7	Acetic acid	10	25		TWA (8 h)	EU
		15	37		STEL (15 min)	EU
64-17-5	Ethanol	1000	1920	Í	TWA (8 h)	WEL
		-	-	Í	STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL

### 8.2. Exposure controls







## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

## Eye/face protection

Wear eye/face protection.

### **Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.





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

## 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: green
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

65 °C

Flash point:

9 °C

**Flammability** 

Solid: not applicable
Gas: not applicable
Lower explosion limits: 6 vol. %
Upper explosion limits: not determined
Ignition temperature: 440 °C

**Auto-ignition temperature** 

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties** 

Not oxidizing.

Vapour pressure: 129 hPa

(at 20 °C)

Vapour pressure: 552 hPa

(at 50 °C)

Density: not determined Water solubility: easily soluble

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient: not determined
Vapour density: not determined
Evaporation rate: not determined

9.2. Other information

Solid content: not determined

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Highly flammable.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.





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## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

## 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### **ATEmix** calculated

ATE (oral) 555,6 mg/kg; ATE (dermal) 1666,7 mg/kg; ATE (inhalative vapour) 16,67 mg/l; ATE (inhalative aerosol) 2,778 mg/l

## **Acute toxicity**

CAS No	Chemical name						
	Exposure route	Dose		Species	Source		
67-56-1	methanol						
	oral	LD50	5628 mg/kg	Rat			
	dermal	LD50	17100 mg/kg	Rabbit			
	inhalative (4 h) vapour	LC50	85,26 mg/l	Rat	Irritation to respiratory tract		
	inhalative aerosol	ATE	0,5 mg/l				
64-17-5	ethanol, ethyl alcohol						
	oral	LD50	6200 mg/kg	Rat	IUCLID		
	inhalative (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS		
12501-23-4	4 Phosphotungstic acid						
	oral	LD50	3300 mg/kg	Rat			
64-19-7	Acetic acid 100 %						
	oral	LD50	3310 mg/kg	Rat	GESTIS		

#### Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

# **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.





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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	
67-56-1	methanol						
	Acute fish toxicity	LC50	15400 mg/l	96 h	Lepomis macrochirus (Bluegill)		
	Acute crustacea toxicity	EC50	>10000 mg/l	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(6600 m	ng/l)				
64-17-5	ethanol, ethyl alcohol						
	Acute crustacea toxicity	EC50 mg/l	9268 - 14221	48 h	Daphnia magna	IUCLID	
12501-23-4	Phosphotungstic acid						
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	
64-19-7	Acetic acid 100 %						
	Acute fish toxicity	LC50	88 mg/l	96 h	Pimephales promelas (fathead minnow)	GESTIS	
	Acute crustacea toxicity	EC50	65 mg/l	48 h	Daphnia magna	Janssen et al	

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation	•		•		
67-56-1	methanol					
	OECD 301D/ EEC 92/69/V, C.4-E	99 %	30			
	Readily biodegradable (according to OECD criteria).					

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-56-1	methanol	-0,77
64-17-5	ethanol, ethyl alcohol	-0,31
64-19-7	Acetic acid 100 %	-0,17

## 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

The product has not been tested.

## 12.6. Other adverse effects

No information available.

## **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.





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## Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

**14.1. UN number:** UN 1992

14.2. UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol, Ethanol, Essigsäure)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+6.1



Classification code: FT1
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 336
Tunnel restriction code: D/E

### Inland waterways transport (ADN)

**14.1. UN number:** UN 1992

14.2. UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol, Ethanol, Essigsäure)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+6.1



Classification code: FT1
Special Provisions: 274 802
Limited quantity: 1 L
Excepted quantity: E2

## Marine transport (IMDG)

**14.1. UN number:** UN 1992

14.2. UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol, Ethanol, Acetic acid)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+6.1



Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-D





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## Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1992

14.2. UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol, Ethanol, Acetic acid)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+6.1



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

1 L

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger: 352
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

### 14.6. Special precautions for user

No information available.

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

not applicable

## **SECTION 15: Regulatory information**

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

### **EU** regulatory information

2010/75/EU (VOC): 18,92 % 2004/42/EC (VOC): 18,92 %

### **Additional information**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water contaminating class (D): 2 - water contaminating

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals





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EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

## Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H370 Causes damage to organs.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)