



Print date: 14.08.2018

according to Regulation (EC) No 1907/2006

Papanicolaou solution 2b, Orange II solution

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

1.1. Product identifier

Papanicolaou solution 2b, Orange II solution

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

Street: Havixbecker Str. 62
Place: 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

labor1@waldeck-ms.de

+49(0)180/2247662

1.4. Emergency telephone

number:

SECTION 2: Hazards identification

$\underline{\textbf{2.1. Classification of the substance or mixture}}$

Regulation (EC) No. 1272/2008 Hazard categories:

> Flammable liquid: Flam. Liq. 2 Acute toxicity: Acute Tox. 3 Acute toxicity: Acute Tox. 3 Acute toxicity: Acute Tox. 3

Specific target organ toxicity - single exposure: STOT SE 1

Hazard Statements:

Highly flammable liquid and vapour.

Toxic if inhaled.

Toxic in contact with skin.

Toxic if swallowed.

Causes damage to organs.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

methanol

Signal word: Danger

Pictograms:







GB - EN

Hazard statements

H225 Highly flammable liquid and vapour.

H301+H311+H331 Toxic 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.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P370+P378 In case of fire: Use In case of fire, use sand, extinguishing powder or alcohol resistant

foam. to extinguish.

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 Regulation	Classification according to Regulation (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 H331 H311 H301 H370					
12501-23-4	Phosphotungstic acid			< 0.1 %		
	215-682-7					
	Skin Corr. 1B; 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

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

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. Call a physician immediately.

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

Drowsiness, Dizziness, Impairment of vision. Inhalation causes narcotic effects/intoxication.

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

Treat symptomatically.

SECTION 5: Firefighting measures





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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. Provide adequate ventilation. 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

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: Oxidizing 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





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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
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 protection/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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: orange-red
Odour: characteristic

pH-Value (at 20 °C):

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: 50 vol. %
Ignition temperature: 440 °C





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Auto-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: 129 hPa

(at 20 °C)

Vapour pressure: 552 hPa

(at 50 °C)

Density (at 20 °C): 0,83 g/cm³
Water solubility: easily soluble

(at 25 °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.

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.

10.6. Hazardous decomposition products

Plastic articles, Rubber articles

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATEmix calculated

ATE (oral) 105,3 mg/kg; ATE (dermal) 315,8 mg/kg; ATE (inhalation vapour) 3,16 mg/l; ATE (inhalation aerosol) 0,526 mg/l





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Acute toxicity

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
67-56-1	methanol						
	oral	LD50 mg/kg	5628	Rat			
	dermal	LD50 mg/kg	17100	Rabbit			
	inhalation (4 h) vapour	LC50 mg/l	85,26	Rat	Irritation to respiratory tract		
	inhalation aerosol	ATE	0,5 mg/l				
12501-23-4	Phosphotungstic acid						
	oral	LD50 mg/kg	3300	Rat			

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
67-56-1	methanol						
	Acute fish toxicity	LC50 1 mg/l	15400		Lepomis macrochirus (Bluegill)		
	Acute crustacea toxicity	EC50 >	>10000		Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(6600 mg/l)					
12501-23-4	Phosphotungstic acid						
	Acute crustacea toxicity	EC50 >	> 100		Daphnia magna (Big water flea)	OECD 202	

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





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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.

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 123014.2. UN proper shipping name:METHANOL

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



Classification code: FT1
Special Provisions: 279
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. (enth. Ethanol, Methanol)

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





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Marine transport (IMDG)

UN 1992 14.1. UN number:

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

14.3. Transport hazard class(es): 3 14.4. Packing group: П Hazard label: 3+6.1



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

Air transport (ICAO-TI/IATA-DGR)

UN 1992 14.1. UN number:

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

14.3. Transport hazard class(es): 3 14.4. Packing group: П Hazard label: 3+6.1



Special Provisions: А3 Limited quantity Passenger: Passenger LQ: 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 I

14.6. Special precautions for user

Warning: Combustible liquid. Toxic.

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): 95 % (788,5 g/l) 2004/42/EC (VOC): 95 % (788,5 g/l) Information according to 2012/18/EU **H2 ACUTE TOXIC**

(SEVESO III):

Additional information: P₅c

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).





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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 - clearly 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

Changes

This data sheet contains changes from the previous version in section(s): 2,3,6,8.

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

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%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 3; H331	Calculation method
Acute Tox. 3; H311	Calculation method
Acute Tox. 3; H301	Calculation method
STOT SE 1; H370	Calculation method

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H301+H311+H331 Toxic 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 information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

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