

according to UK REACH Regulation

# Papanicolaou's Solution - Orange G (PAP 2a) - (S)

Revision date: 27.07.2023

Product code: 11957.xxxxx

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

# 1.1. Product identifier

Papanicolaou's Solution - Orange G (PAP 2a) - (S)

UFI:

EK32-11SY-800N-87XG

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

#### Use of the substance/mixture

Use as laboratory reagent.Intended for scientific research and development.

## Uses advised against

Any non-intended use.

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

Company name:	MORPHISTO GmbH	
Street:	Schumannstr. 142/144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.de	
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Poison Information Center Mainz, Germany,	Tel: +49(0)6131/19240

# number:

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Flam. Liq. 2; H225 Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 1; H370

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# **GB CLP Regulation**

Hazard components for labelling methanol

Signal word:

**Pictograms:** 

word.



#### Hazard statements

H225	Highly flammable liquid and vapour.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H319	Causes serious eye irritation.
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.
P233	Keep container tightly closed.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P337+P313	If eye irritation persists: Get medical advice/attention.

## Labelling of packages where the contents do not exceed 125 ml

Signal word: Pictograms:



Hazard statements H370

Precautionary statements

P260-P308+P311

## 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

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

# 3.2. Mixtures

## Hazardous components

CAS No	Chemical name			
	EC No	Index No	REACH No	
	Classification (GB CLP F	Regulation)		
64-17-5	Ethanol			60 - < 65 %
	200-578-6 603-002-00-5 01-2119457610-43			
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
67-56-1	methanol	20 - < 25 %		
	200-659-6	603-001-00-X	01-2119433307-44	
	Flam. Liq. 2, Acute Tox.			
78-93-3	butanone			< 1 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

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



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# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc	. Limits, M-factors and ATE	
64-17-5	200-578-6	Ethanol	60 - < 65 %
		:50 = 124,7 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 rit. 2; H319: >= 50 - 100	
67-56-1	200-659-6	methanol	20 - < 25 %
		E = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = oral: LD50 = 2528 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >=	
78-93-3	201-159-0	butanone	< 1 %
	dermal: 1 D50	) = >2000 mg/kg; oral; LD50 = 2054 mg/kg	

#### **Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

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

# After inhalation

When in doubt or if symptoms are observed, get medical advice. Provide fresh air. If unconscious but breathing normally, place in recovery position and seek medical advice. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

#### After contact with skin

Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary. Take off contaminated clothing and wash it before reuse. Wash with plenty of water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## After ingestion

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Seek medical advice.

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

Acute effects: Mucous membrane irritation after eye contact or inhalation. Delayed effects: Impairment of inhibitory functions of the central nervous system, skin redness, nausea after ingestion of large amounts.

# 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.

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## Unsuitable extinguishing media

High power water jet.

# 5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air. Highly flammable. The formation of combustible vapours is possible at temperatures above: 7°C. Vapours are heavier than air and will spread at floor level. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2).

## 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

#### **General advice**

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Take action to prevent static discharges. Ventilate affected area. Special danger of slipping by leaking/spilling product.

Wear personal protection equipment. (refer to chapter 8)

## 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

# 6.3. Methods and material for containment and cleaning up

#### For cleaning up

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

## Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

Clear contaminated areas thoroughly.

# 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. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. (See section 8.) Use extractor hood (laboratory).

## 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. Flammable vapours can accumulate in head space of closed systems. Heating causes rise in pressure with risk of bursting.



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# Advice on general occupational hygiene

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, drink, smoke, sniff. Always close containers tightly after the removal of product. Protect skin by using skin protective cream.

# Further information on handling

General protection and hygiene measures: refer to chapter 8

# 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. Keep/Store only in original container. Protect from direct sunlight.

Ensure adequate ventilation of the storage area. Concentrated vapours are heavier than air.

Suitable material for Container: Stainless steel. (1.4301 (V2), 1.4401 (V4)); iron. solvent resistant plastics. Unsuitable materials for Container: Aluminium. Rubber. various plastics.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances or mixtures which, in contact with water, emit flammable gases. Oxidizing liquids.ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

## Further information on storage conditions

Recommended storage temperature: 15-25 °C Protect against: UV-radiation/sunlight. heat. Cold.

#### 7.3. Specific end use(s)

See section 1.

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

# 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL
-	Molybdenum compounds (as Mo), soluble compounds	-	5		TWA (8 h)	WEL
		-	10		STEL (15 min)	WEL

#### **Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

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# **DNEL/DMEL** values

Substance			
	Exposure route	Effect	Value
Ethanol			
acute	inhalation	local	1900 mg/m³
long-term	dermal	systemic	343 mg/kg bw/day
long-term	inhalation	systemic	950 mg/m³
EL, acute	inhalation	local	950 mg/m³
EL, long-term	dermal	systemic	206 mg/kg bw/day
EL, long-term	inhalation	systemic	114 mg/m³
EL, long-term	oral	systemic	87 mg/kg bw/day
methanol			
acute	inhalation	local	260 mg/m <sup>3</sup>
acute	dermal	systemic	40 mg/kg bw/day
acute	inhalation	systemic	260 mg/m³
Worker DNEL, long-term		local	260 mg/m³
Worker DNEL, long-term		systemic	40 mg/kg bw/day
long-term	inhalation	systemic	260 mg/m³
	acute long-term long-term EL, acute EL, long-term EL, long-term EL, long-term methanol acute acute long-term long-term long-term	Ethanol       inhalation         acute       inhalation         long-term       dermal         long-term       inhalation         EL, acute       inhalation         EL, long-term       dermal         EL, long-term       inhalation         EL, long-term       oral         methanol       oral         acute       inhalation         acute       dermal         long-term       inhalation         long-term       inhalation         long-term       inhalation	Ethanolacuteinhalationlocallong-termdermalsystemiclong-terminhalationsystemicEL, acuteinhalationlocalEL, long-termdermalsystemicEL, long-terminhalationsystemicEL, long-termoralsystemicEL, long-termoralsystemicEL, long-termoralsystemicacuteinhalationlocalacuteinhalationlocalacuteinhalationsystemicacuteinhalationsystemicacuteinhalationlocalacuteinhalationsystemiclong-terminhalationsystemiclong-terminhalationsystemiclong-terminhalationsystemiclong-terminhalationsystemiclong-terminhalationsystemiclong-terminhalationsystemic

# **PNEC** values

CAS No	Substance	
Environment	tal compartment	Value
64-17-5	Ethanol	
Freshwater		0,96 mg/l
Freshwater (	(intermittent releases)	2,75 mg/l
Marine wate	r	0,79 mg/l
Marine wate	r (intermittent releases)	2,75 mg/l
Freshwater s	sediment	3,6 mg/kg
Marine sedir	nent	2,9 mg/kg
Secondary p	0,72 mg/kg	
Micro-organi	580 mg/l	
Soil		0,63 mg/kg
67-56-1	methanol	
Freshwater		20,8 mg/l
Marine wate	r	2,08 mg/l
Marine wate	r (intermittent releases)	1540 mg/l
Freshwater s	sediment	77 mg/kg
Marine sedir	nent	7,7 mg/kg
Micro-organi	isms in sewage treatment plants (STP)	100 mg/l
Soil		3,18 mg/kg

# 8.2. Exposure controls



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# Appropriate engineering controls

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

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Use extractor hood (laboratory).

## Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles. Tightly sealed safety glasses. EN 166

#### 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. In case of prolonged or frequently repeated skin contact:

Tested protective gloves are to be worn:

Suitable material:

Butyl rubber. (0,7 mm, Breakthrough time >=480 min, penetration time (maximum wearing period): 160 min): NBR (Nitrile rubber). (0,4 mm, Breakthrough time >=120 min, penetration time (maximum wearing period): 40 min)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

#### **Skin protection**

Protective clothing. (fire retardant.)

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Insufficient ventilation.

exceeding exposure limit values

generation/formation of aerosols

Suitable respiratory protective equipment:

gas filtering equipment (EN 141). Type : a

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

# Thermal hazards

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

# Environmental exposure controls

Do not allow to enter into surface water or drains.



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

# 9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	orange	
Odour:	Ethanol.	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		64,7 °C
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		9,7 °C
Auto-ignition temperature:		400 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		completely miscible
(at 20 °C)		
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		129 hPa
(at 20 °C)		
Vapour pressure:		293 hPa
(at 50 °C)		
Density (at 20 °C):		0,78 g/cm³
Relative vapour density:		not determined
Particle characteristics:		not applicable
.2. Other information		

#### 9.2. Other information

# Information with regard to physical hazard classes

## Explosive properties

The product is not: Explosive. Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition. Self-ignition temperature

Gas:	not determined
Oxidizing properties	
none	
Other safety characteristics	
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Viscosity / dynamic:	not determined
Flow time:	not determined

# **SECTION 10: Stability and reactivity**



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# 10.1. Reactivity

Highly flammable. No information available.

# 10.2. Chemical stability

Stable under normal storage and handling conditions.

## 10.3. Possibility of hazardous reactions

Explosion risk in contact with: Oxidizing agents, strong. nitric acid. Hydrogenium peroxide. Exothermic reactions with: Alkali metals. Alkaline earth metals. Reducing agents, strong.

#### 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. Keep away from heat. Protect from direct sunlight. Protect from moisture. In use may form flammable/explosive vapour-air mixture.

Heating causes rise in pressure with risk of bursting. Recommended storage temperature: < 40 °C

## 10.5. Incompatible materials

Materials to avoid: Alkali metals. Acid chlorides. Oxidizing agents.

# 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2).

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

#### ATEmix calculated

ATE (oral) 410,5 mg/kg; ATE (dermal) 1232 mg/kg; ATE (inhalation vapour) 12,32 mg/l; ATE (inhalation dust/mist) 2,053 mg/l

#### CAS No Chemical name Exposure route Dose Species Source Method 64-17-5 Ethanol oral LD50 >5000 Rat ECHA Dossier mg/kg LD50 >2000 Rabbit FCHA Dossier dermal mg/kg LC50 124.7 Rat ECHA Dossier inhalation (4 h) vapour mg/l 67-56-1 methanol LD50 2528 Rat ECHA Dossier oral mg/kg LD50 ECHA Dossier dermal 17100 Rabbit mg/kg inhalation vapour ATE 3 mg/l inhalation dust/mist ATE 0,5 mg/l butanone 78-93-3 LD50 2054 SDB Lieferant oral Ratte mg/kg LD50 >2000 ECHA Dossier dermal Rabbit mg/kg



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# Irritation and corrosivity

# Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

## Sensitising effects

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

## Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

Causes damage to organs. (methanol)

#### STOT-repeated exposure

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

# Aspiration hazard

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

## Specific effects in experiment on an animal

not known

# 11.2. Information on other hazards

#### **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Depending on the ingested quantity the following symptoms can be induced: a reduction of inhibitions, euphoria but also dysphoria, aggressiveness, impaired motoric skills, impaired responsiveness, blurred vision and fatigue.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

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

CAS No	Chemical name	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
64-17-5	Ethanol							
	Acute fish toxicity	LC50 mg/l	14200	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier		
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier		
	Acute crustacea toxicity	EC50 mg/l	5012	48 h	48 h Ceriodaphnia dubia ECHA Dossier (water flea)			
	Crustacea toxicity	NOEC	9,6 mg/l	9 d	Daphnia magna	ECHA Dossier		
67-56-1	methanol							
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	ECHA Dossier		
	Acute algae toxicity	ErC50 mg/l	22000	96 h	Pseudokirchneriella subcapitata	ECHA Dossier		
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna	ECHA Dossier	OECD 202	
78-93-3	butanone			-				
	Acute fish toxicity	LC50 mg/l	2993	96 h	Pimephales promelas	ECHA Dossier	OECD 203	
	Acute algae toxicity	ErC50 mg/l	1972	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	OECD 201	
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD 202	



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## 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			-
64-17-5	Ethanol			
	other guideline	84%	20	ECHA Dossier
	Biodegradable.			
67-56-1	methanol			
	other guideline	96%	20	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
78-93-3	butanone			
		98%	28	ECHA Dossier
	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
64-17-5	Ethanol	-0,31
67-56-1	methanol	-0,77
78-93-3	butanone	0,3

# BCF

CAS No	Chemical name	BCF	Species	Source
67-56-1	methanol	<10		

#### 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. 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

# **Disposal recommendations**

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. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

# List of Wastes Code - residues/unused products



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160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

## List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

## List of Wastes Code - contaminated packaging

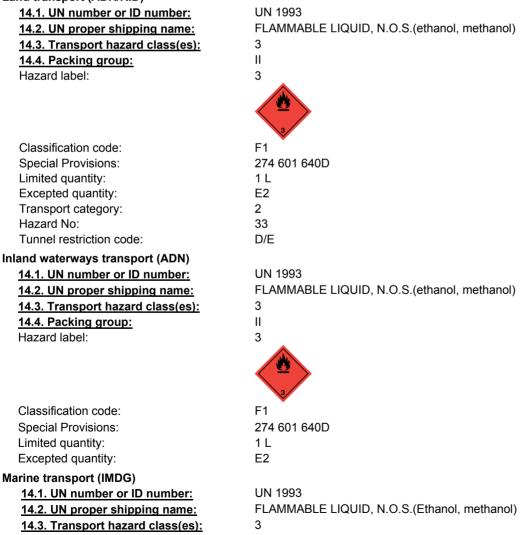
150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

## Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself. Handle contaminated packages in the same way as the substance itself.Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)





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14.4. Packing group:	II	
Hazard label:	3	
Special Provisions:	274 1 L	
Limited quantity: Excepted quantity:	E2	
EmS:	F-E, S-E	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number or ID number:</u>	UN 1993	
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.(Ethanol, methanol)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
Hazard label:	3	
	3	
Special Provisions:	A3	
Limited quantity Passenger:	1L	
Passenger LQ:	Y341	
Excepted quantity: IATA-packing instructions - Passenger:	E2 353	
IATA-max. quantity - Passenger:	555 5 L	
IATA-packing instructions - Cargo:	364	
IATA-max. quantity - Cargo:	60 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user		
Warning: Combustible liquid. Refer to	section 6-8	
14.7. Maritime transport in bulk according t	o IMO instruments	
not relevant		
SECTION 15: Regulatory information		
15.1 Safety health and environmental requ	lations/legislation specific for the substance or mixture	
EU regulatory information Restrictions on use (REACH, annex XVII)		
Entry 3, Entry 40, Entry 75		
2010/75/EU (VOC):	87,46 % (682,188 g/l)	
2004/42/EC (VOC): Information according to 2012/18/EU	87,46 % (682,188 g/l) H3 STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSI	IDE
(SEVESO III):	113 STOT SPECIFIC TARGET ORGAN TOXICITT - SINGLE EXPOSI	UNE
Additional information:	P5c	
Additional information		
	according to regulation (EC) No 1272/2008 [CLP].	

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

# National regulatory information

according to UK REACH Regulation

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Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC). Observe employment restriction under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	
Water hazard class (D):	2 - obviously hazardous to water	
Skin resorption/Sensitization:	Permeates easily through outer skin and causes poisoning.	
Additional information		
15.2. Chemical safety assessment		
Ethanol	s mixture a chemical safety assessment has been carried out:	
methanol		
butanone		
SECTION 16: Other information		

#### Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,7,8,9,11,12,13,14,15,16. Rev. 1,00; 05.11.2012 Initial release Rev. 1,1; 27.11.2019 Fusion into Collect Data SDB Rev. 1,2; 19.06.2020, Revision Kap.1 - 16 Rev. 1,3; 11.11.2020, Adding an article Kap. 1 Rev. 2,0: 27.07.2023; general adjustment(s) Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen AGW: Arbeitsplatzgrenzwert AVV: Abfallverzeichnisverordnung CAS Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures DNEL: Derived No Effect Level d: day(s) EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European Waste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) h: hour LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level NLP: No-Longer Polymers N/A: not applicable GB - en



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OECD: Organisation for Economic Co-operation and Development PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) REACH: Registration, Evaluation, Authorisation of Chemicals SVHC: substance of very high concern TRGS Technische Regeln fuer Gefahrstoffe UN: United Nations VOC: Volatile Organic Compounds VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe WGK: Wassergefaehrdungsklasse CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Classification for mixtures and used evaluation method according to GB CLP Regulation Classification Classification procedure On basis of test data Flam. Liq. 2; H225 Acute Tox. 4; H302 Calculation method Acute Tox. 4; H312 Calculation method Acute Tox. 4; H332 Calculation method Eye Irrit. 2; H319 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.
H302	Harmful if swallowed.

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# Safety Data Sheet

according to UK REACH Regulation

# Papanicolaou's Solution - Orange G (PAP 2a) - (S)

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# **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

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.)