

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Pink PAP Pen, Pink PAP Pen mini (ZUC064, ZUC065)

Print date: 07.10.2014

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

1.1. Product identifier

Pink PAP Pen, Pink PAP Pen mini (ZUC064, ZUC065)

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

Use of the substance/mixture

in vitro-diagnostic reagent or laboratory reagent

1.3. Details of the supplier of the safety data sheet

Company name:	Zytomed Systems GmbH	
Street:	Anhaltinerstraße 16	
Place:	D-14163 Berlin	
Telephone:	+49 30 804 984 990	Telefax: +49 30 804 984 999
e-mail:	info@zytomed-systems.de	
Internet:	www.zytomed-systems.de	

1.4. Emergency telephone number:

+49 30 804 984 990

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: T - Toxic, Xn - Harmful, Xi - Irritant
R phrases:
May cause cancer.
May cause heritable genetic damage.
May impair fertility.
Possible risk of harm to the unborn child.
In use, may form flammable/explosive vapour-air mixture.
Harmful by inhalation and in contact with skin.
Irritating to eyes, respiratory system and skin.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.

GHS classification

Hazard categories:
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Germ cell mutagenicity: Muta. 1B
Carcinogenicity: Carc. 1B
Reproductive toxicity: Repr. 1B
Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - repeated exposure: STOT RE 2
Hazard Statements:
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause genetic defects.
May cause cancer.
May damage fertility. May damage the unborn child.
May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Signal word: Danger

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Pictograms:

GHS07-GHS08



Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.

Special labelling of certain mixtures

EUH209	Can become highly flammable in use.
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2.3. Other hazards

No risks worthy of mention.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
203-445-0	1-bromopropane, n-propyl bromide	<40 %
106-94-5	Repr. Cat. 2, Repr. Cat. 3, F - Highly flammable, Xn - Harmful, Xi - Irritant R11-60-63-48/20-36/37/38-67	
602-019-00-5	Flam. Liq. 2, Repr. 1B, STOT RE 2, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, STOT SE 3; H225 H360FD H373 ** H319 H335 H315 H336	
215-535-7	xylene	<20 %
1330-20-7	Xn - Harmful, Xi - Irritant R10-20/21-38	
601-022-00-9	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315	
232-453-7	Ligroine; Low boiling point naphtha	<10 %
8032-32-4	Carc. Cat. 2, Muta. Cat. 2, Xn - Harmful R45-46-65	
649-263-00-9	Carc. 1B, Muta. 1B, Asp. Tox. 1; H350 H340 H304	
204-658-1	n-butyl acetate	<10 %
123-86-4	R10-66-67	
607-025-00-1	Flam. Liq. 3, STOT SE 3; H226 H336	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

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4.1. Description of first aid measures

After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Medical treatment necessary.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently 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

No data available

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

No further informations

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water. Carbon dioxide (CO₂). Foam. Extinguishing powder.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

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

Additional information

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. Wear personal protection equipment. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion hazard.

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

see chapter 8 and 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. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

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Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Vapours may 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 place. Keep away from sources of ignition. - No smoking.

Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

7.3. Specific end use(s)

in vitro-diagnostic reagent or laboratory reagent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

8.2. Exposure controls

Occupational exposure 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. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Hand protection

Tested protective gloves are to be worn: NBR (Nitrile rubber).

Eye protection

Suitable eye protection: Framed glasses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: light grey
 Odour: characteristic

Test method

pH-Value: Not determined

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Changes in the physical state

Melting point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	Not determined

Flammability

Solid:	Not determined
Gas:	Not determined

Lower explosion limits:	Not determined
Upper explosion limits:	Not determined

Auto-ignition temperature

Solid:	Not determined
Gas:	Not determined

Vapour pressure:	Not determined
Density:	Not determined
Water solubility:	Not determined

Solubility in other solvents

Not determined

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

9.2. Other information

No further informations

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Protect against: Emission of air/oxygen. No data available

10.6. Hazardous decomposition products

No data available

Further information

No further informations

SECTION 11: Toxicological information

11.1. Information on toxicological effects**Acute toxicity**

Toxic. Acute toxicity, oral. Acute toxicity, inhalant.

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
1330-20-7	xylene				
	dermal	ATE	1100 mg/kg		
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		

Irritation and corrosivity

Irritating to eyes. Following inhalation: Lung irritation. Coughing. shortage of breath. After skin contact: Irritant.

Sensitising effects

May cause sensitization by inhalation.

Severe effects after repeated or prolonged exposure

Danger of serious damage to health by prolonged exposure.

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. May cause heritable genetic damage.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-94-5	1-bromopropane, n-propyl bromide	2,1

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Waste disposal number of waste from 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 dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)**Other applicable information (land transport)**

No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)**Other applicable information (inland waterways transport)**

No dangerous good in sense of these transport regulations.

Marine transport (IMDG)**Other applicable information (marine transport)**

No dangerous good in sense of these transport regulations.

Air transport (ICAO)**Other applicable information (air transport)**

No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No further informations

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No further informations

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**EU regulatory information**

1999/13/EC (VOC): 40 %

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

- 10 Flammable.
- 11 Highly flammable.
- 18 In use, may form flammable/explosive vapour-air mixture.
- 20/21 Harmful by inhalation and in contact with skin.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 38 Irritating to skin.
- 45 May cause cancer.
- 46 May cause heritable genetic damage.

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48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
60	May impair fertility.
63	Possible risk of harm to the unborn child.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Full text of H statements referred to under Sections 2 and 3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Further Information

This information is based on our present knowledge. No guarantee is given regarding its accuracy or comprehensiveness. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Zytomed Systems shall not be held liable for resulting damages from handling or from contact with the above product. Paper copies are allowed to be used for internal use only.

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