

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 4 Feb 2021

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**Version:** 1.1

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## PanTum Detect Kit

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

#### 1.1 Product identifier

**Trade name/designation:**

PanTum Detect Kit

**Additional information:**

The kit consists of the following components:

Surface Antibody:

CD14 PerCP, 1 ml

CD16 APC, 1 ml

Intracellular Antibody:

Apo10 FITC, 1 ml

TKTL1 PE, 1 ml

Fixation Reagent (Solution 1), 11 mL

Permeabilization and Lysis Reagent (Solution 2), 11 mL

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

**Use of the substance/mixture:**

Cell biology reagents.

For professional use only.

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

**Manufacturer/Supplier:**

**Zyagnum AG**

Reißstr. 1

64319 Pfungstadt

GERMANY

**Telephone:** +49 (0) 6151 365 31 0

**Telefax:** +49 (0) 6151 365 31 10

**E-mail:** info@zyagnum.com

**Website:** <http://www.zyagnum.com/>

**E-mail (competent person):** info@zyagnum.com

#### 1.4 Emergency phone number

24h: +49 (0) 551 19240 (german and english)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]:**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	Calculation
Germ cell mutagenicity ( <i>Muta. 2</i> )	H341: Suspected of causing genetic defects.	Calculation
Carcinogenicity ( <i>Carc. 1B</i> )	H350: May cause cancer.	Calculation
STOT-single exposure ( <i>STOT SE 2</i> )	H371: May cause damage to organs.	Calculation

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### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS08**  
Health hazard



**GHS07**  
Exclamation mark

Signal word: Warning

Hazard components for labelling:

Formaldehyde; Methanol

#### Hazard statements for health hazards

H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H371	May cause damage to organs.

#### Precautionary statements - Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
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#### Precautionary statements - Response

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P308+P313	IF exposed or concerned: Get medical advice/attention.

### 2.3 Other hazards

Adverse human health effects and symptoms:

May cause eye irritation. May cause skin irritation.

Adverse environmental effects:

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

## SECTION 3: Composition / information on ingredients

### 3.2 Mixtures

Description:

Phosphate buffered saline (PBS) and additives

Ingredients:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
<b>CAS No.:</b> 67-56-1 <b>EC No.:</b> 200-659-6 <b>REACH No.:</b> 01-2119433307-44	<b>Methanol</b> Acute Tox. 3, Flam. Liq. 2, STOT SE 1 <b>Danger</b> H225-H301-H311-H331-H370	≤ 8 weight-%
<b>CAS No.:</b> 8047-15-2 <b>EC No.:</b> 232-462-6 <b>REACH No.:</b> 01-2120078922-48	<b>Saponins</b> Eye Irrit. 2, STOT SE 3 <b>Warning</b> H319-H335	≤ 6 weight-%
<b>CAS No.:</b> 50-00-0 <b>EC No.:</b> 200-001-8 <b>REACH No.:</b> 01-2119513723-45	<b>Formaldehyde</b> Acute Tox. 3, Carc. 1B, Muta. 2, Skin Corr. 1B, Skin Sens. 1 <b>Danger</b> H301-H311-H314-H317-H331-H341-H350	< 5 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 26628-22-8 EC No.: 247-852-1 REACH No.: 01-2119457019-37	Sodium azide Acute Tox. 2, Aquatic Acute 1, Aquatic Chronic 1  <b>Danger</b> H300-H400-H410-EUH032	< 0.09 weight-%

Full text of H- and EUH-phrases: 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). Remove victim out of the danger area. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air.

#### In case of skin contact:

Wash with plenty of water.

#### After eye contact:

In case of contact with eyes, rinse thoroughly with water. In case of eye irritation consult an ophthalmologist.

#### Following ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Get medical advice/attention if you feel unwell.

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

May cause eye irritation. May cause skin irritation.

### 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, alcohol resistant foam, extinguishing powder, carbon dioxide (CO<sub>2</sub>).  
Coordinate fire-fighting measures to the fire surroundings.

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

#### Hazardous combustion products:

In case of fire may be liberated: Gases/vapours, toxic (possible in traces)

### 5.3 Advice for firefighters

Use suitable breathing apparatus.

### 5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.

## SECTION 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel

##### Personal precautions:

Avoid contact with skin, eyes and clothes. Safe handling: see section 7.

##### Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection. Personal protection equipment: see section 8.

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### 6.1.2 For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

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

**For containment:**

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

**For cleaning up:**

Water (with cleaning agent)

### 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

**Protective measures**

**Advices on safe handling:**

Avoid contact with skin, eyes and clothes. Keep container tightly closed. Remove contaminated, saturated clothing. Wash contaminated clothing prior to re-use. Wear personal protection equipment (refer to section 8).

**Environmental precautions:**

Discharge into the environment must be avoided.

**Advices on general occupational hygiene**

When using do not eat, drink or smoke. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse. Apply skin care products after work.

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

**Technical measures and storage conditions:**

Store in a closed container. Keep in a cool place. Protect from direct sunlight.

**Requirements for storage rooms and vessels:**

Keep only in the original container.

**Hints on storage assembly:**

Keep away from food, drink and animal feedingstuffs.

### 7.3 Specific end use(s)

**Recommendation:**

Specific analysis.

Observe instructions for use.

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### SECTION 8: Exposure controls / Personal protection

#### 8.1 Control parameters

##### 8.1.1 Occupational exposure limit values

Limit value type (country)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	Methanol CAS No.: 67-56-1	① 200 ppm (260 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
WEL (GB)	Methanol CAS No.: 67-56-1	① 200 ppm (266 mg/m <sup>3</sup> ) ② 250 ppm (333 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
WEL (GB)	Formaldehyde CAS No.: 50-00-0	① 2 ppm (2.5 mg/m <sup>3</sup> ) ② 2 ppm (2.5 mg/m <sup>3</sup> )
BOELV (EU)	Formaldehyde CAS No.: 50-00-0	① 0.3 ppm (0.37 mg/m <sup>3</sup> ) ② 0.6 ppm (0.74 mg/m <sup>3</sup> )
WEL (GB)	Sodium azide CAS No.: 26628-22-8	① 0.1 mg/m <sup>3</sup> ② 0.3 mg/m <sup>3</sup> ⑤ (may be absorbed through the skin)
IOELV (EU)	Sodium azide CAS No.: 26628-22-8	① 0.1 mg/m <sup>3</sup> ② 0.3 mg/m <sup>3</sup> ⑤ (may be absorbed through the skin)

##### 8.1.2 Biological limit values

No data available.

##### 8.1.3 DNEL-/PNEC-values

No data available.

#### 8.2 Exposure controls

##### 8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaust at critical locations.

##### 8.2.2 Personal protection equipment



###### Eye/face protection:

Eye glasses with side protection (EN 166)

###### Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material:  $\geq 0,11$  mm

Breakthrough time:  $\geq 480$  min

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

###### Respiratory protection:

Usually no personal respiratory protection necessary. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Combination filtering device, Filter type A-P2/P3

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### Other protection measures:

Wear suitable protective clothing (EN 340).

### 8.2.3 Environmental exposure controls

Do not empty into drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state:** liquid, clear

**Colour:** colourless - light yellow

**Odour:** not determined

### Safety relevant basic data

Parameter		at	Method	Remark
pH	7 - 8	20 °C		
Melting point	≈ 0 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	≥ 100 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not applicable</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	23 hPa	20 °C		
Vapour density	<i>not applicable</i>			
Density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility	easily soluble			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not applicable</i>			
Kinematic viscosity	<i>not applicable</i>			

### 9.2 Other information

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Heat, Light.

### 10.5 Incompatible materials

Oxidising agent, Acids.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

In case of fire may be liberated: Gases/vapours, toxic (possible in traces)

### Further information

No data available.

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## PanTum Detect Kit

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

CAS No.	Substance name	Toxicological information
50-00-0	Formaldehyde	<b>LD<sub>50</sub> oral:</b> 100 mg/kg (Rat) OECD 401 <b>LD<sub>50</sub> dermal:</b> 270 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 0.578 mg/L 4 h (Rat)
67-56-1	Methanol	<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 83.9 mg/L 4 h (Rat)

**Acute oral toxicity:**

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

**Acute dermal toxicity:**

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

**Acute inhalation toxicity:**

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

**Skin corrosion/irritation:**

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

**Serious eye damage/irritation:**

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

May cause eye irritation.

**Respiratory or skin sensitisation:**

May cause an allergic skin reaction.

**Germ cell mutagenicity:**

Suspected of causing genetic defects.

**Carcinogenicity:**

May cause cancer.

**Reproductive toxicity:**

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

**STOT-single exposure:**

May cause damage to organs.

**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.

**Additional information:**

No data available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

**Aquatic toxicity:**

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

#### 12.2 Persistence and degradability

**Biodegradation:**

No data available.

#### 12.3 Bioaccumulative potential

**Accumulation / Evaluation:**

No indication of bioaccumulation potential.

#### 12.4 Mobility in soil

No data available.

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### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Waste treatment options

##### Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Do not allow to enter into surface water or drains.

##### Appropriate disposal / Package:

Completely emptied packages can be recycled.

##### Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal.

### 13.2 Additional information

Waste for disposal is to be classified and labelled.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI-/IATA-DGR)
<b>14.1 UN-No.</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.2 UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.3 Transport hazard class(es)</b>			
not relevant			
<b>14.4 Packing group</b>			
not relevant			
<b>14.5 Environmental hazards</b>			
not relevant			
<b>14.6 Special precautions for user</b>			
not relevant			

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

not relevant

#### Additional information:

No data available.



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## PanTum Detect Kit

### SECTION 15: Regulatory information

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

##### 15.1.1 EU legislation

###### Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

##### 15.1.2 National regulations

No data available.

#### 15.2 Chemical Safety Assessment

No data available.

### SECTION 16: Other information

#### 16.1 Indication of changes

Changes executed in version 1.1:

Section 1: Additional information

General revision

#### 16.2 Abbreviations and acronyms

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

#### 16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): <http://www.echa.europa.eu>

ECHA, C&L Inventory: <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>

ECHA, Registered substances: <http://echa.europa.eu/information-on-chemicals/registered-substances>

GESTIS (Gefahrstoffinformationssystem der DGUV): <http://www.dguv.de/ifa/GESTIS/index.jsp>

Hörath Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	Calculation
Germ cell mutagenicity ( <i>Muta. 2</i> )	H341: Suspected of causing genetic defects.	Calculation
Carcinogenicity ( <i>Carc. 1B</i> )	H350: May cause cancer.	Calculation
STOT-single exposure ( <i>STOT SE 2</i> )	H371: May cause damage to organs.	Calculation

#### 16.5 Relevant H- and EUH-phrases

Hazard statements	
H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H370	Causes damage to organs.

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### Hazard statements

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### Supplemental hazard information

EUH032	Contact with acids liberates very toxic gas.
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### 16.6 Training advice

No data available.

### 16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.