



# Safety Data Sheet

Complies Regulation (EC) No. 1907/2006 (REACH), Annex II,  
modified according to Regulation (EC) 453/2010 - Europe

**ANTIGENES**

Medizinische Labordiagnostika Soukou  
Hustadtring 151  
D-44801 Bochum  
Germany  
Tel.: +49 234-91795580  
Fax: +49 234-91795581  
Email: [info@antigenes.de](mailto:info@antigenes.de)  
Homepage: [www.antigenes.de](http://www.antigenes.de)

## SemenLeu

### 1. Identification of the substance/mixture and of the supplier

**Product name:** SemenLeu  
**Article No:** ZR103020  
**Application:** Seminal leucocyte test  
*In vitro* diagnostics  
**Manufacturer:** ANTIGENES, Hustadtring 151, 44801 Bochum, Germany  
**Homepage:** [www.antigenes.de](http://www.antigenes.de)  
**E-Mail:** [info@antigenes.de](mailto:info@antigenes.de)  
**Distribution:** ANTIGENES, Hustadtring 151, 44801 Bochum, Germany  
**Emergency call:** For Germany  
+49 (0) 551 - 19240 Giftinformationszentrum Nord

### 2. Hazards

#### 2.1 Classification and labeling

Classification according to Regulation (EC) No. 1272/2008. Classification according to Directive 67/548 / EEC or Directive 1999/45 / EC. Labeling according to Regulation (EC) No. 1272/2008. The substance / product is classified and labeled according to the CLP Regulation.

#### O-Toluidin



Toxic



Health Hazard



Environmental Hazard

#### Special risks and safety tips

R23/R24/R25 Toxic by inhalation, in contact with skin and if swallowed.  
R36 Irritating to eyes.  
R45 May cause cancer.  
R50 Very toxic to aquatic organisms.  
S45 In case of accident or if you feel unwell, seek medical advice immediately.  
S53 Avoid exposure — obtain special instructions before use.  
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

#### Hazard and safety instructions

H301 Toxic if swallowed.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled  
H350 May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).  
H400 Very toxic to aquatic life.  
P201 Obtain special instructions before use.  
P273 Avoid release to the environment.  
P309/310 IF exposed or if you feel unwell: Immediately call a POISON CENTER/doctor/...

#### Ammonium chloride



Harmful

#### Special risks and safety tips

R22 Harmful if swallowed.  
R 36 Irritating to eyes.  
S2 Keep out of the reach of children.  
S22 Do not breathe dust.

#### Hazard and safety instructions

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**EDTA****Special risks and safety tips**

R 36 Irritating to eyes.  
 S2 Keep out of the reach of children.  
 S22 Do not breathe dust.

**Hazard and safety instructions**

H319 Causes serious eye irritation.  
 P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.

**Hydrogen peroxide****Special risks and safety tips**

R5 Heating may cause an explosion.  
 R8 Contact with combustible material may cause fire.  
 R20/R22 Harmful by inhalation and if swallowed.  
 R35 Causes severe burns.  
 S1/S2 Keep locked up and out of the reach of children.  
 S17 Keep away from combustible material.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S28 After contact with skin, wash immediately with plenty of water.  
 S36/S37/S39 Wear suitable protective clothing, gloves and eye/face protection.  
 S45 In case of accident or if you feel unwell, seek medical advice immediately.

**Hazard and safety instructions**

H271 May cause fire or explosion; strong oxidizer  
 H302 Harmful if swallowed  
 H314 Causes severe skin burns and eye damage.  
 H332 Harmful if inhaled.  
 P220 Keep away from clothing and other combustible materials.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P310 Immediately call a POISON CENTER/doctor/...  
 P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.

**2.2 Other hazard statements**

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

**3. Composition/ingredients**

Component	Reagents	CAS-Code	Quantity
Solution 1	Ortho-Toluidin	95-53-4	<1 %
	Ammonium chloride	12125-02-9	<1 %
	EDTA	60-00-4	<1 %
	H <sub>2</sub> O	7732-18-5	>98 %
Solution 2	Hydrogen peroxide	7722-84-1	<30 %
	H <sub>2</sub> O	7732-18-5	>70 %

**4. First aid measures****4.1 Description of first aid measures**

After inhalation of dusts: supply fresh air; if any symptoms occur seek medical advice.  
 After skin contact: wash with water.  
 After eye contact: rinse with open eyelid for 10 minutes under running water and seek medical advice.  
 After swallowing: rinse mouth and then drink water.  
 If symptoms persist seek medical advice.

**4.2 The most important acute and delayed symptoms and effects**

Cause irritation, cough, stomach and intestinal disorders

**4.3 Indication of immediate medical attention and special treatment**

Skin contact: rinse out quickly and thoroughly with water. Continue to monitor skin. Consult a doctor if any swelling occurs.

Revenue: immediately spit out and rinse thoroughly with water. If any discomfort is felt, consult a doctor immediately.

Eyes: Rinse immediately with an eyewash. Rinse the eyes thoroughly under running tap water. Keep an eye on the eyesight and look for a doctor during the deterioration.

Inhalation: Immediately breathe fresh air, rest and breathe in and out several times. Call a physician if the deterioration occurs.

## 5. Fire fighting measures

### 5.1 Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Unsuitable extinguishing agents: for this substance / mixture no limitations of extinguishing agents are known.

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

Product non-combustible.

Ambient fire may liberate hazardous vapors.

In case of fire can be released: Carbon monoxide and carbon

### 5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus.

## 6. Accidental release measures

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

Avoid skin and eye contact. Do not breathe dust.

### 6.2 Environmental precautions

Do not flush into sewers or waterways.

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

Pick up mechanically. Dispose of the captured material properly. Clean the area with gloves and masks with water and dry thoroughly. Air the room. Wash coat and contaminated clothing.

## 7. Handling and storage

Store at cold temperatures (2-8°C).

## 8. Exposure controls/personal protection

Wear gloves, mask and coat while handling during the execution. Avoid smoking and acting with high heat-generating appliances.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

	Solution 1	Solution 2
Aggregate state	liquid	liquid
Color	blue	colorless
Odor	odorless	odorless
Melting point	not determined	not determined
Boiling point	not determined	not determined
Inflammability	not determined	not determined
Firing point	not determined	not determined
Steam pressure	not determined	not determined
Relative density	not determined	not determined
Solubility	not determined	not determined
Viscosity	not determined	not determined
Explosive properties	not determined	not determined
Oxidizing properties	not determined	not determined
Explosion limits	not determined	not determined

### 9.2 Other information: none

## 10. Stability and reactivity

	Solution 1	Solution 2
<b>Reactivity</b>	the product has not been tested	the product has not been tested
<b>Chemical stability</b>	stable when properly stored and handled	stable when properly stored and handled
<b>Thermal decomposition / conditions to be avoided</b>	no decomposition if used according to specifications	no decomposition if used according to specifications
<b>Possibility of hazardous reactions</b>	reactions with strong oxidizing agents	reactions with strong oxidizing agents
<b>Conditions to avoid</b>	avoid strong heating no further relevant information available	avoid strong heating no further relevant information available
<b>Incompatible materials</b>	oxidizing agents	oxidizing agents
<b>Hazardous decomposition products</b>	carbon monoxide and carbon dioxide, nitrous gases, hydrogen chloride (HCl)	carbon monoxide and carbon dioxide, nitrous gases, hydrogen chloride (HCl)

**11. Toxicological information (based on individual ingredients of the solution(s))****Ammonium chloride****Dangerous health effects****Primary irritation:**

**Inhalation of the powder:** irritation of the respiratory tract, cough and breathing difficulties.

**Contact with eyes:** irritation of connective tissue.

**Skin contact:** slight irritation.

**When taking large amounts:** mucosal irritation, headache, vomiting or unconsciousness.

**EDTA****Dangerous health effects****Primary irritation:**

**On the skin:** no irritation.

**On the eye:** no irritation.

**Sensitization:** no sensitizing effects known.

**Additional toxicological information:** When used and handled according to instructions, the product does not have any harmful effects according to our experience and the information available to us.

**O-Toluidin****Dangerous health effects**

**After inhalation:** changes in blood counts, dyspnea, movement coordination disorders and / or unconsciousness

**Systemic effects:** headache, blood pressure drop, dyspnoea and cyanosis.

**Hydrogen peroxide****Dangerous health effects****Primary irritation:**

**By inhalation of vapors:** irritation on the respiratory tract.

**Skin contact:** burns to the mucous membrane, skin and eyes

**In case of contact with eyes:** burns

**Ingestion:** burns in the digestive tract. May cause vomiting or vomiting.

**For absorption of large quantities:** intestinal and esophageal perforation. There are no objective and definitive conclusions regarding a carcinogenic effect of this substance

**12. Ecological information**

Potential damages unknown. Do not empty into drains / groundwater / soil.

**13. Disposal considerations**

Used solutions and solutions that are past life must be disposed of as hazardous waste, it is to follow the local guidelines; do not release to drains, groundwater and/or soil.

**14. Transport information**

Not classified in transport of dangerous goods.

**15. Regulatory information****15.1 Safety, health and environmental regulations/specific legislation for the substances or mixture.**

National regulations: no

Restriction of occupation: no

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out

**16. Other information**

All chemicals are potentially dangerous. Therefore they have to be handled only by specially trained personnel with the necessary care. Although certain hazards are described herein, we cannot guarantee that these are the only hazards. This information is based on our present knowledge; however, it offers no assurance of product properties and establishes no contract legal rights. To our experience and the information provided the product does not have any harmful effects when used and handled according to specifications.