



Safety Data Sheet

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

ANTIGENES

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SemenCit

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

Product Name: SemenCit
Product Code : ZR10700
Application: **Determination of the citric acid content in semen**
***In vitro* diagnostics**
Company: ANTIGENES, Hustadtring 151, 44801 Bochum, Germany
Homepage: www.antigenes.de
E-Mail: info@antigenes.de
Distribution: ANTIGENES, Hustadtring 151, 44801 Bochum, Germany
Emergency call: For Germany
+49 (0) 551 - 19240 Poison Information Centre

2. Hazards identification

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.

Isopropyl alcohol



Flammable



Harmful

Special risks and safety tips

R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapors may cause drowsiness and dizziness.
S2 Keep out of the reach of children.
S7 Keep container tightly closed.
S16 Keep away from sources of ignition — No smoking.
S24/S25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Hazard statements and safety information

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P303/P361/P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304/P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305/P351/P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ferric chloride



Harmful

Special risks and safety tips

R22 Harmful if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear eye/face protection.



Corrosive

Hazard statements and safety instructions

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301/P312 If swallowed: call a Poison Center or a doctor if you feel unwell,

P302/P352 If on skin: wash with plenty of water

P305/P351/P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

P501 Dispose of contents/container to ...

Citric acid

Harmful

Special risks and safety tips

R36 Irritating to eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Hazard statements 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.

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/information on ingredients

Component	Reagents	CAS-Code	Quantity
Solution 1	Isopropyl (alcohol)	67-63-0	not specified
Solution 2	Ferric chloride	10025-77-1	not specified
Solution 3	Citric acid	5949-29-1	not specified

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

No further relevant information available

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	Solution 3
Aggregate state	liquid	liquid	liquid
Color	transparent	dark green	transparent
Odor	not specified	not specified	not specified
Melting point	not determined	not determined	not determined
Boiling point	not determined	not determined	not determined
Inflammability	not determined	not determined	not determined
Firing point	not determined	not determined	not determined
Steam pressure	not determined	not determined	not determined
Relative density	not determined	not determined	not determined
Solubility	not determined	not determined	not determined
Viscosity	not determined	not determined	not determined
Explosive properties	not determined	not determined	not determined
Oxidizing properties	not determined	not determined	not determined
Explosion limits	not determined	not determined	not determined

9.2 Other information: None**10. Stability and reactivity**

	Solution 1	Solution 2
Reactivity	the product has not been tested	the product has not been tested
Chemical stability	stable when properly stored and handled	stable when properly stored and handled
Thermal decomposition / conditions to be avoided	no decomposition if used according to specifications	no decomposition if used according to specifications
Possibility of hazardous reactions	reactions with strong oxidizing agents	reactions with strong oxidizing agents
Conditions to avoid	avoid strong heating no further relevant information available	avoid strong heating no further relevant information available
Incompatible materials	oxidizing agents	oxidizing agents
Hazardous decomposition products	carbon monoxide and carbon dioxide, nitrous gases, hydrogen chloride (HCl)	carbon monoxide and carbon dioxide, nitrous gases, hydrogen chloride (HCl)
	Solution 3	
Reactivity	the product has not been tested	
Chemical stability	stable when properly stored and handled	
Thermal decomposition / conditions to be avoided	no decomposition if used according to specifications	
Possibility of hazardous reactions	reactions with strong oxidizing agents	
Conditions to avoid	avoid strong heating no further relevant information available	
Incompatible materials	oxidizing agents	
Hazardous decomposition products	carbon monoxide and carbon dioxide, nitrous gases, hydrogen chloride (HCl)	

11. Toxicological information (based on individual ingredients of the solution(s))**Isopropyl alcohol****Dangerous health effects****Classification-relevant LD₅₀ / LC₅₀ values:**

Acute toxicity

LD50 oral rat: > 2.000 mg / kg

LD50 dermal rabbit: > 2.000 mg / kg

Serious eye damage / eye irritation: very irritating.

By inhalation: Irritations in the respiratory tract, coughing and breathing difficulties.

When taking up large amounts: mucosal irritation, headache, nausea, or unconsciousness.

Ferric chloride**Dangerous health effects**

By irritation to the skin, eyes and mucous membranes.
Through contact with the eyes: Serious injuries.
If swallowed: nausea, vomiting, gastro-intestinal disorders.
By administration large quantities: cardiovascular disorders, liver and kidney dysfunction.
Further hazardous properties cannot be excluded.

Citric acid**Dangerous health effects**

Through contact with the eyes: irritations.
Further hazardous properties cannot be excluded.

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.