

Safety Data Sheet

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

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SemenGlu

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

Product Name: SemenGlu **Product Code:** ZR10500

Determination of the glucose content in sperms **Application:**

In vitro diagnostics

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+49 (0) 551 - 19240 Poison Information Centre

2. Hazards identification

Classification and labeling 2.1

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.

p-Nitrophenol



Envirometal Hazard



Health Hazard

Special risks and safety tips

R20/R21/R22 Harmful by inhalation, in contact with skin and if swallowed.

R33 Danger of cumulative effects. S2 Keep out of the reach of children.

S28 After contact with skin, wash immediately with plenty of water.

Hazard statements and safety information

H301/H311/H331 Toxic if swallowed, in contact with skin or if inhaled H373 May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H400 Very toxic to aquatic life.

P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash utensils thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P501 Dispose of contents/container according to 94/62/CE or 2008/98/CE.

Sodium dodecyl sulfate (SDS)



Special risks and safety tips

R11 Highly flammable.

R21/R22 Harmful by inhalation and in contact with skin. R36/R37/R38 Irritating to eyes, respiratory system and skin.

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

S36/S37 Wear suitable protective clothing and gloves.

Hazard statements and safety information

H228 Flammable solid. H302 Harmful if swallowed. H311 Toxic in contact with skin.

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H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H413 May cause long lasting harmful effects to aquatic life.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P373 DO NOT fight fire when fire reaches explosives.

 $P280\ Wear\ protective\ gloves/protective\ clothing/eye\ protection/face$

protection.

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

Sodium chloride (NaCl) Special risks and safety tips

no R- and S-phrases

Hazard statements and safety information

no H- and P-phrases

Sodium-hydrogenphosphate (Na₂HPO₄) Special risks and safety tips no R- and S-phrases

no R- and S-phrases
Hazard statements and safety information

no H- and P-phrases

Potassium chloride (KCl) Special risks and safety tips

no R- and S-phrases

Hazard statements and safety information

no H- and P-phrases

Castanospermine Special risks and safety tips

no R- and S-phrases

Hazard statements and safety information

no H- and P-phrases

p-Nitrophenol- α - Special risks and safety tips

Glukopyranoside R36 Irritating to eyes.

Hazard statements and safety information

H319 Causes serious eye irritation.

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

protection.

P305/P351/P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Sodium carbonate

(Na₂CO₃)

Special risks and safety tips

R36 Irritating to eyes.

S2 Keep out of the reach of children.

S22 Do not breathe dust.

S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Hazard statements and safety information

H319 Causes serious eye irritation.

 $P260\ Do\ not\ breathe\ dust/fume/gas/mist/vapours/spray.$

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

Harmful

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

3. Composition/information on ingredients

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Component	Reagents	CAS-Code	Quantity
Solution 1	P-Nitrophenole		not specified
Solution 2	NaCl	7647-14-5	not specified
	KCl	7447-40-7	not specified
	Na2HPO4	7558-79-4	not specified
	NaHPO4	144-55-8	not specified

Issuing SDS: Section Quality Management -

-			-
	Natriumazid		not specified
	SDS		not specified
Solution 3	Castanospermine		not specified
Solution 4	P-Nitrophenol-Glukopyranoside	3767-28-0	not specified
Solution 5	Sodium carbonate	497-19-8	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 Estinguishing 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	Solution 4
Aggregate state	liquid	liquid	liquid	liquid
Color	not determined	not determined	not determined	white to off-
				white solid
Odor	not specified	not specified	not specified	not specified
Melting point	not determined	not determined	not determined	not determined
Boiling point	not determined	not determined	not determined	not determined
Inflammability	not determined	not determined	not determined	not determined
Firing point	not determined	not determined	not determined	not determined
Steam pressure	not determined	not determined	not determined	not determined
Relative density	not determined	not determined	not determined	not determined
Solubility	not determined	not determined	not determined	not determined
Viscosity	not determined	not determined	not determined	not determined
Explosive properties	not determined	not determined	not determined	not determined
Oxidizing properties	not determined	not determined	not determined	not determined
Explosion limits	not determined	not determined	not determined	not determined

Issuing SDS: Section Quality Management -

	Solution 5
Aggregate state	liquid
Color	colorless
Odor	odorless
Melting point	not determined
Boiling point	not determined
Inflammability	not determined
Firing point	not determined
Steam pressure	not determined
Relative density	not determined
Solubility	not determined
Viscosity	not determined
Explosive properties	not determined
Oxidizing properties	not determined
Explosion limits	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 /	no decomposition if used according to	no decomposition if used according to	
conditions to be avoided	specifications	specifications	
Possibility of hazardous	reactions with strong oxidizing agents	reactions with strong oxidizing agents	
reactions			
Conditions to avoid	avoid strong heating no further relevant	avoid strong heating no further relevant	
	information available	information available	
Incompatible materials	oxidizing agents	oxidizing agents	
Hazardous decomposition	carbon monoxide and carbon dioxide, nitrous	carbon monoxide and carbon dioxide, nitrous	
products	gases, hydrogen chloride (HCl)	gases, hydrogen chloride (HCl)	
	Solution 3	Solution 4	
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 /	no decomposition if used according to	no decomposition if used according to	
conditions to be avoided	specifications	specifications	
Possibility of hazardous	reactions with strong oxidizing agents	reactions with strong oxidizing agents	
reactions			
Conditions to avoid	avoid strong heating, no further relevant	avoid strong heating no further relevant	
	information available	information available	
Incompatible materials	oxidizing agents	oxidizing agents	
Hazardous decomposition	carbon monoxide and carbon dioxide, nitrous	carbon monoxide and carbon dioxide, nitrous	
products	gases, hydrogen chloride (HCl)	gases, hydrogen chloride (HCl)	
	Solution 5		
Reactivity	the product has not been tested		
Chemical stability	stable when properly stored and handled		
Thermal decomposition /	no decomposition if used according to		
conditions to be avoided	specifications		
Possibility of hazardous	reactions with strong oxidizing agents		
reactions			
Conditions to avoid	avoid strong heating, no further relevant		
	information available		
Incompatible materials	oxidizing agents		
Hazardous decomposition	carbon monoxide and carbon dioxide, nitrous		
products	gases, hydrogen chloride (HCl)		

11. Toxicological Information (based on individual ingredients of the solution(s)) p-Nitrophenole

Dangerous health effects

Skin contact: Risk of absorption through the skin.

On contact with eyes: irritation

Inhalation of the powder: mucous membrane irritation Ingestion: Irritation to the oral mucosa, throat, esophagus and intestinal tract.

Additional toxicological information: After ingestion of large quantities: vomiting, vomiting, stomach pain, breathing problems Blood changes, anxiety, convulsions, liver, kidney, heart and circulatory dysfunction. Other hazardous properties cannot be excluded.

Sodium dodecyl sulfate (SDS)

Dangerous health effects

Primary irritation:

On the skin: irritating to skin and mucous membranes.

On the eye: strong irritation with danger of serious eye damage. **After inhalation:** Mucosal irritation, cough, dyspnoea. May cause

drowsiness or dizziness.

After swallowing: Irritations in the mouth, throat, esophagus,

gastrointestinal tract.

After absorption: drop in blood pressure, fatigue. **Sensitization:** no sensitizing effects known.

Specific target organ toxicity:

In case of single exposure: may cause respiratory irritation.

In case of repeated exposure: The substance or mixture is classified as

non-target-toxic.

Sodium chloride (NaCl)

Dangerous health effects

On the skin: skin irritation after prolonged or repeated exposure.

On the eve: slight irritation. After inhalation: slight irritation

Sensitization: no sensitizing effects known. Aspiration hazard: no data available. **Specific target organ toxicity:**

In case of single exposure: the substance or mixture is classified as

non-target-toxic.

In case of repeated exposure: the substance or mixture is classified as

non-target-toxic.

Additional toxicological information: After swallowing: nausea, vomiting.

Sodium hydrogen phosphate (NaHPO₄)

Dangerous health effects

On the skin: repeated or prolonged contact may cause skin irritation

On the eve: slight irritation.

After inhalation: in case of massive exposure to dust the respiratory

tract can become irritated.

Sensitization: no sensitizing effects known.

Aspiration hazard: no classification for aspiration toxicity.

Specific target organ toxicity:

In case of single exposure: the substance or mixture is classified as

non-target-toxic.

In case of repeated exposure: the substance or mixture is classified as

non-target-toxic.

Additional toxicological information: After swallowing large quantities: gastrointestinal disturbances, nausea, vomiting.

Di-Sodium hydrogen phosphate (Na_2HPO_4)

Dangerous health effects

On the skin: prolonged or repeated contact can cause skin irritation.

On the eye: Irritation possible with intensive exposure

After inhalation: no data available.

Sensitization: no sensitizing effects known.

Specific target organ toxicity:

In case of single exposure: the substance or mixture is classified as non-

target-toxic.

In case of repeated exposure: the substance or mixture is classified as non-target-toxic.

Potassium chloride (KCI)

Dangerous health effects

On the skin: slight irritation. On the eye: slight irritation. **After inhalation:** no irritant effect. **Sensitization:** no sensitizing effects known

Reproductive toxicity and aspiration: no specific effects or hazards

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known.

Specific target organ toxicity:

In case of single exposure: the substance or mixture is classified as non-target-toxic.

In case of repeated exposure: the substance or mixture is classified as non-target-toxic.

Additional toxicological information: After swallowing large quantities: nausea, vomiting, cardiac arrhythmia, cardiovascular disorders.

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.