

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Anti-tissue Transglutaminase Screen Standards

1. Identification of substance

Product details

Article number ORG 540S
Trade name Anti-tissue Transglutaminase Screen Standards

Manufacturer / Supplier

ORGENTEC Diagnostika GmbH
Carl-Zeiss-Straße 49
55129 Mainz
Germany
Tel.: +49-6131-9258-0
Fax: +49-6131-9258-58
E-mail: orgentec@orgentec.com
http: www.orgentec.com

2. Composition / Data on components

Chemical characterization

Preparation

Description

Mixture of substances listed below with non hazardous additions.

Ingredients:

phosphate buffer
sodium chloride

Hazardous ingredients:

Name according to EC Directives:	Sodium azide
Hazard symbols: T+ , N	R-phrases: 28-32-50/53
EC-Index-No.: 011-004-00-7	very toxic if swallowed. Contact with acids liberates very toxic gas. Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.
CAS-No.: 26628-22-8	Content: ≤ 0.09 %

Additional information

The reagents contain human serum which has been tested and confirmed negative for HBsAg, HCV, HIV1 and HIV2. Since no test method offers complete assurance that infectious agents are absent, these reagents should be treated as potentially infectious.

3. Hazard information

Hazard description

Non Hazardous

Information concerning to particular hazards to man and environment

None

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S

Trade name Anti-tissue Transglutaminase Screen Standards

4. First aid measures

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation

Supply fresh air; consult doctor in case of complaints.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water.

After swallowing

Call for a doctor immediately.

5. Fire fighting measures

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special protective equipment for fire fighting:

No special measures required.

6. Accidental release measure

Person-related safety precautions

Not required.

Measures for environmental protection

No measures required.

Measures for cleaning/collecting

Absorb with liquid-binding material. Dispose material as waste according to item 13.

7. Handling and storage

Handling

Information for safe handling

No special measures required

Information about fire - and explosion protection

No special measures required.

Storage

Requirements to be met by storerooms and receptacles

No special requirements.

Information about storage in one common storage facility

Not required.

Further information about storage conditions

2 - 8 °C.

Class according to regulation on flammable liquids

Void

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Anti-tissue Transglutaminase Screen Standards

8. Exposure controls and personal protection gear

Additional information about design of technical facilities

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace

26628-22-8 sodium azide

MAK (Germany): 0,2 mg/m³

Additional information

The lists valid during the making were used as basis.

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Respiratory protection

Not required.

Protection of hands

Protective gloves.

Eye protection

Goggles recommended during refilling.

9. Physical and chemical properties

Form	liquid
Colour	yellow
Odour	characteristic
Melting point	not available
Boiling point	not available
Ignition temperature	not available
Self igniting	Product is not selfigniting.
Flash point	not available
Danger of Explosion	Product does not present an explosion hazard.
Explosion limits	lower not available
upper not available	
Relative vapour density	not available
Density (20 °C)	1.02 g/cm ³
Solubility in water (20 °C)	Fully miscible

10. Stability and reactivity

Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

Dangerous reactions

No dangerous reactions known

Dangerous decomposition products

No dangerous decomposition products known

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S

Trade name Anti-tissue Transglutaminase Screen Standards

15. Regulations

Labelling according to EC Directives

The product has been classified and marked in accordance with EU Directives / Ordinance on hazardous Materials

Code letter and hazard designation of product

Not applicable.

Hazard-determining components of labelling

Not applicable.

Risk phrases

Not applicable.

Safety phrases

Not applicable.

National regulations

Classification according to VbF

Void

Waterhazard class

Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Department issuing MSDS

Quality Assurance and Safety Department

Date of issue: 11.07.2005 Supersedes edition of: 20.01.2005

ORGENTEC

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Anti-tissue Transglutaminase Screen Controls

1. Identification of substance

Product details

Article number ORG 540S
Trade name Anti-tissue Transglutaminase Screen Controls

Manufacturer / Supplier

ORGENTEC Diagnostika GmbH
Carl-Zeiss-Straße 49
55129 Mainz
Germany

Tel.: +49-6131-9258-0
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2. Composition / Data on components

Chemical characterization

Preparation

Description

Mixture of substances listed below with non hazardous additions.

Ingredients:

phosphate buffer
sodium chloride

Hazardous ingredients:

Name according to EC Directives:

Sodium azide

Hazard symbols: T+, N

R-phrases: 28-32-50/53

EC-Index-No.: 011-004-00-7

very toxic if swallowed. Contact with acids liberates very toxic gas. Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

CAS-No.: 26628-22-8

Content: ≤ 0.09 %

Additional information

The reagents contain human serum which has been tested and confirmed negative for HBsAg, HCV, HIV1 and HIV2. Since no test method offers complete assurance that infectious agents are absent, these reagents should be treated as potentially infectious.

3. Hazard information

Hazard description

Non hazardous.

Information concerning to particular hazards to man and environment

None.

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Anti-tissue Transglutaminase Screen Controls

4. First aid measures

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation

Supply fresh air; consult doctor in case of complaints.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water.

After swallowing

Call for a doctor immediately.

5. Fire fighting measures

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special protective equipment for fire fighting:

No special measures required.

6. Accidental release measure

Person-related safety precautions

Not required.

Measures for environmental protection

Prevent sewage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting

Absorb with liquid-binding material. Dispose material as waste according to item 13.

7. Handling and storage

Handling

Information for safe handling

No special measures required

Information about fire - and explosion protection

No special measures required.

Storage

Requirements to be met by storerooms and receptacles

No special requirements.

Information about storage in one common storage facility

Not required.

Further information about storage conditions

2 - 8 °C.

Class according to regulation on flammable liquids

Void

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S

Trade name Anti-tissue Transglutaminase Screen Controls

15. Regulations

Labelling according to EC Directives

The product has been classified and marked in accordance with EU Directives / Ordinance on hazardous Materials

Code letter and hazard designation of product

Not applicable.

Hazard-determining components of labelling

Not applicable.

Risk phrases

Not applicable.

Safety phrases

Not applicable.

National regulations

Classification according to VbF

Void

Waterhazard class

Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Department issuing MSDS

Quality Assurance and Safety Department

Date of issue: 11.07.2005 Supersedes edition of: 20.01.2005

ORGENTEC

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S

Trade name Anti-tissue Transglutaminase Screen Enzyme Conjugate IgG/M/A

1. Identification of substance

Product details

Article number ORG 540S

Trade name Anti-tissue Transglutaminase Screen Enzyme Conjugate IgG/M/A

Manufacturer / Supplier

ORGENTEC Diagnostika GmbH
Carl-Zeiss-Straße 49
55129 Mainz
Germany

Tel.: +49-6131-9258-0
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E-mail: orgentec@orgentec.com
http: www.orgentec.com

2. Composition / Data on components

Chemical characterization

Preparation

Description

Mixture of substances listed below with non hazardous additions.

Ingredients:

phosphate buffer
sodium chloride
Anti-human IgG horseradish peroxidase conjugate
Anti-human IgM horseradish peroxidase conjugate
Anti-human IgA horseradish peroxidase conjugate

Hazardous ingredients:

Name according to EC Directives:	2-Methyl-4-isothiazolin-3-one
Hazard symbols:	T, N R-phrases: R23/24/25/34/43/50-53
EC-Index-No.:	613-167-00-5 very toxic if swallowed. Contact with acids liberates very toxic gas. Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

CAS-No.:	2682-20-4	Content:	≤ 0.0015 %
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Name according to EC Directives:	5-chloro-2-methyl-4-isothiazolin-3-one
Hazard symbols:	T, N R-phrases: R23/24/25/34/43/50-53
EC-Index-No.:	613-167-00-5 very toxic if swallowed. Contact with acids liberates very toxic gas. Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

CAS-No.:	26172-55-4	Content:	≤ 0.0015 %
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ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S

Trade name Anti-tissue Transglutaminase Screen Enzyme Conjugate IgG/M/A

3. Hazard information

Hazard description

Non hazardous.

Information concerning to particular hazards to man and environment

None

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4. First aid measures

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation

Supply fresh air; consult doctor in case of complaints.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water.

After swallowing

Call for a doctor immediately.

5. Fire fighting measures

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special protective equipment for fire fighting:

No special measures required.

6. Accidental release measure

Person-related safety precautions

Not required.

Measures for environmental protection

Prevent sewage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting

Absorb with liquid-binding material. Dispose material as waste according to item 13.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S

Trade name Anti-tissue Transglutaminase Screen Enzyme Conjugate IgG/M/A

7. Handling and storage

Handling

Information for safe handling

No special measures required

Information about fire - and explosion protection

No special measures required.

Storage

Requirements to be met by storerooms and receptacles

No special requirements.

Information about storage in one common storage facility

Not required.

Further information about storage conditions

2 - 4 °C.

Class according to regulation on flammable liquids

Void

8. Exposure controls and personal protection gear

Additional information about design of technical facilities

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace

220-239-6, 2-Methyl-4-isothiazolin-3-one

247-500-7, 5-Chloro-2-methyl-4-isothiazolin-3-one

MAK (Germany): 0,2 mg/m³

Additional information

The lists valid during the making were used as basis.

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Respiratory protection

Not required.

Protection of hands

Protective gloves.

Eye protection

Goggles recommended during refilling.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S

Trade name Anti-tissue Transglutaminase Screen Enzyme Conjugate IgG/M/A

9. Physical and chemical properties

Form	liquid
Colour	red
Odour	characteristic
Melting point	not available
Boiling point	not available
Ignition temperature	not available
Self igniting	Product is not selfigniting.
Flash point	not available
Danger of Explosion	Product does not present an explosion hazard.
Explosion limits	lower not available
	upper not available
Relative vapour density	not available
Density (20 °C)	1.02 g/cm ³
Solubility in water (20 °C)	Fully miscible

10. Stability and reactivity

Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

Dangerous reactions

No dangerous reactions known.

Dangerous decomposition products

No dangerous decomposition products known.

11. Toxicological information

Acute toxicity

Primary irritant effect on the skin

No irritant effect.

Primary irritant effect on the eye

No irritant effect.

Sensitization

No sensitizing effects known.

Additional toxicological information

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

No health hazards at use levels.

12. Ecological information

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S

Trade name Anti-tissue Transglutaminase Screen Enzyme Conjugate IgG/M/A

13. Disposal considerations

Product – Recommendation

Waste disposal must be in accordance with appropriate Federal, State, Local and International regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Uncleaned packaging – Recommendation

Disposal must be made according to official regulations.

14. Transport information

Land transport ADR/RID and GGVS/GGVE (Germany)

ADR/RID class number and letter

GGVS/GGVE class number and letter

name of material

Maritime transport IMDG

IMDG Class

UN-No.:
Packaging group
MFAG

Ems

Correct technical name

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class

UN/ID-No.:
Packaging group

Correct technical name

15. Regulations

Labelling according to EC Directives

The product has been classified and marked in accordance with EU Directives / Ordinance on hazardous Materials

Code letter and hazard designation of product

Not applicable.

Hazard-determining components of labelling

Not applicable.

Risk phrases

Not applicable.

Safety phrases

Not applicable.

National regulations

Classification according to VbF

Void

Waterhazard class

Water hazard class 1 (Self-assessment): slightly hazardous for water.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S

Trade name Anti-tissue Transglutaminase Screen Enzyme Conjugate IgG/M/A

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Department issuing MSDS

Quality Assurance and Safety Department

Date of issue: 11.07.2005 Supersedes edition of: 20.01.2005



ORGENTEC

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name TMB Substrate Solution

1. Identification of substance

Product details

Article number ORG 540S
Trade name TMB-Substrate solution

Manufacturer / Supplier

ORGENTEC Diagnostika GmbH
Carl-Zeiss-Straße 49
55129 Mainz

Germany

Tel.: +49-6131-9258-0

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E-mail: orgentec@orgentec.com

http: www.orgentec.com

2. Composition / Data on components

Chemical characterization

Preparation

Description

Mixture of substances listed below with non hazardous additions.

Dangerous components

67-68-5	dimethyl sulfoxide	≤ 1.0 %	
54827-17-7	3,3',5,5'-tetramethylbenzidine	0.04 %	T;R 23/24/25
106-69-4	1,2,6-Hexanetriol	≤ 5.0 %	

3. Hazard information

Irritant

4. First aid measures

After inhalation

Supply fresh air; Consult doctor in case of complaints.

After skin and eye contact,

Flush eyes or skin with copious amounts of water. Wash contaminated clothing before reuse. Consult a physician if irritation persists.

5. Fire fighting measures

Suitable extinguishing agents

CO₂, alcohol foam, foam, dry chemical and water/fog

Unusual fire and explosion hazards

May emit toxic fumes under fire conditions.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name TMB Substrate Solution

6. Accidental release measure

Contain spill and the clean up with copious amounts of wate. Avoid contact with skin and clothing.

7. Handling and storage

Store at 4 °C

8. Exposure controls and personal protection gear

Inhalation

May be harmful if inhaled in very large quantities.

Eye contact

Direct contact with product may result in eye irritation.

Skin contact

Prolonged and repeated contact with product may cause skin irritation.

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection

None required if good ventilation is maintained. Otherwise wear MSHA/NIOSH approved respirator suitable for vapor or mist concentrations encountered.

Protection of hands

Protective gloves.

Eye protection

Goggles recommended during refilling.

9. Physical and chemical properties

Form	liquid
Colour	colorless to slight bluish tinge solution
Odour	Odourless
Change in condition	
Melting point/Melting range	< 0 °C (water)
Boiling point/Boiling range	> 100 ° C (water)
Flash point	
Ignition temperature	
Self-igniting	Product is not selfigniting.
Danger of explosion	Product does not present an explosion hazard.
Explosion limits	
Lower	1,8 Vol %
Vapour pressure at 20 ° C	23 hPa
Density at 20 ° C	1,015 g/cm3
Solubility in / Miscibility with Water	Dilutable

10. Stability and reactivity

Stable

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Stop Solution

1. Identification of substance

Product details

Article number ORG 540S
Trade name Stop Solution

Manufacturer / Supplier

ORGENTEC Diagnostika GmbH
Carl-Zeiss-Straße 49
55129 Mainz
Germany

Tel.: +49-6131-9258-0
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E-mail: orgentec@orgentec.com
http: www.orgentec.com

2. Composition / Data on components

Aqueous solution.

Synonyms

Hydrogen chloride solution

Hazardous ingredients:

Name according to EC Directives:		Hydrochloric acid
Hazard symbols:	C	R-phrases: 34-37
EC-Index-No.:	017-002-01-X	Causes burns. Irritating to respiratory system.
CAS-No.:	7647-01-0	Content: ≥ 1 - 5 %

3. Hazard information

No hazardous product as specified in Directive 67/548/EEC.

4. First aid measures

General information

No special measure required.

After inhalation

Supply fresh air; consult doctor in case of complaints.

After skin contact

Wash off with plenty of water. Remove contaminated clothing.

After eye contact

Rinse out with plenty of water with the eyelid held wide open.

Summon eye specialist.

After swallowing

Make victim drink plenty of water. Consult doctor if feeling unwell.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Stop Solution

5. Fire fighting measures

Suitable extinguishing agents

In adaption to materials stored in the immediate neighbourhood.

Special risks:

Non-combustible. Hydrogen may form upon contact with metals (danger of explosion!). Ambient fire may liberate hazardous vapours. The following may develop in event of fire: hydrochloric acid.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Other information:

Contain escaping vapours with water.

6. Accidental release measure

Person-related safety precautions

Do not inhale vapours/aerosols. Avoid substance contact.

Measures for environmental protection

Do not allow to enter sewerage system.

Measures for cleaning/collecting

Take up with liquid-absorbent material (e.g. Chemizorb®). Forward for disposal. Clean up affected area.

Additional information

Render harmless: neutralize with diluted sodium hydroxide solution or by throwing on lime, lime sand, or sodium carbonate.

7. Handling and storage

Handling

Cannot be stored indefinitely.

Storage

Requirements to be met by storerooms and receptacles

Tightly closed. In a well-ventilated place. At +15°C to +25°C.

Further information about storage conditions

No metal containers.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Stop Solution

8. Exposure controls and personal protection gear

Specific control parameter

MAK Germany (max. workplace conc.) Hydrogen chloride:
5 ml/m³ or 7.6 mg/m³

Additional information

The lists valid during the making were used as basis

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection

required when vapours/aerosols are generated.

Protection of hands

required

Eye protection

Required

Industrial hygiene:

Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	Odourless
pH value (20 °C)	< 1
Melting point	not available
Boiling point	not available
Ignition temperature	not available
Flash point	not available
Explosion limits	lower upper
	not available
	not available
Relative vapour density	not available
Density (20 °C)	1.02 g/cm ³
Solubility in water (20 °C)	soluble

10. Stability and reactivity

Conditions to be avoided

Heating.

Substances to be avoided

metals (generation of hydrogen).

The generally known reaction partners of water.

Hazardous decomposition products

in the event of fire: hydrochloric acid, chlorine

Further information

unsuitable working materials: metals, metal alloys.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Stop Solution

11. Toxicological information

Acute toxicity

LC₅₀ (inhalation, rat): 3124 ppm(V) /1 h (calculated on the pure substance) ;

Subacute to chronic toxicity

Applicable to the toxicologically determinant component:

An embryotoxic effect need not be feared when the threshold limit value is observed.

Further toxicological information

Property that must be anticipated on the basis of the components of the preparation:

Possible effect after contact with substance: Slight irritations of: mucous membranes, eyes.

Further data

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Behavior in environmental compartments:

Evaluation number (FRG) (fish): 3.1 (calculated on the pure substance) ;

Ecotoxic effects:

Biological effects: Toxic for aquatic organisms. Toxic effect on fish and plankton. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Damage to plant growth. Does not cause biological oxygen deficit.

Fish toxicity: L.idus LC 50 : 862 mg/l (1 N solution) ;

Further ecologic data:

The following applies to HCl in general: Harmful effect on aquatic organisms. Harmful effect due to pH shift. Biological effects: hydrochloric acid (including such due to reaction): lethal for fish as from 25 mg/l; Leuciscus idus LC 50 : 862 mg/l (1N-solution).

Harmful effects begin at: plants 6 mg/l. Does not cause biological oxygen deficit.

Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Product – Recommendation

Waste disposal must be in accordance with appropriate Federal, State, Local and International regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Uncleaned packaging – Recommendation

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Sample buffer, 5x-Concentrate

1. Identification of substance

Product details

Article number ORG 540S
Trade name Sample buffer, 5x-Concentrate

Manufacturer / Supplier

ORGENTEC Diagnostika GmbH
Carl-Zeiss-Straße 49
55129 Mainz
Germany

Tel.: +49-6131-9258-0
Fax: +49-6131-9258-58
E-mail: orgentec@orgentec.com
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2. Composition / Data on components

Chemical characterization

Preparation

Description

Mixture of substances listed below with non hazardous additions.

Ingredients:

phosphate buffer
sodium chloride

Hazardous ingredients:

Name according to EC Directives:

Sodium azide

Hazard symbols: T+ , N

R-phrases: 28-32-50/53

EC-Index-No.: 011-004-00-7

very toxic if swallowed. Contact with acids liberates very toxic gas. Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

CAS-No.: 26628-22-8

Content: ≤ 0.09 %

3. Hazard information

Hazard description

Non hazardous

Information concerning to particular hazards to man and environment

None

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Sample buffer, 5x-Concentrate

4. First aid measures

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation

Supply fresh air; consult doctor in case of complaints.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water.

After swallowing

Call for a doctor immediately.

5. Fire fighting measures

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special protective equipment for fire fighting:

No special measures required.

6. Accidental release measure

Person-related safety precautions

Not required.

Measures for environmental protection

Prevent sewage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting

Absorb with liquid-binding material. Dispose material as waste according to item 13.

7. Handling and storage

Handling

Information for safe handling

No special measures required

Information about fire - and explosion protection

No special measures required.

Storage

Requirements to be met by storerooms and receptacles

No special requirements.

Information about storage in one common storage facility

Not required.

Further information about storage conditions

2 - 8 °C.

Class according to regulation on flammable liquids

Void

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Sample buffer, 5x-Concentrate

15. Regulations

Labelling according to EC Directives

The product has been classified and marked in accordance with EU Directives / Ordinance on hazardous Materials

Code letter and hazard designation of product

Not applicable.

Hazard-determining components of labelling

Not applicable.

Risk phrases

Not applicable.

Safety phrases

Not applicable.

National regulations

Classification according to VbF

Void

Waterhazard class

Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Department issuing MSDS

Quality Assurance and Safety Department

Date of issue: 11.07.2005 Supersedes edition of: 20.01.2005

ORGENTEC

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 540S
Trade name Wash buffer, 50x-Concentrate

1. Identification of substance

Product details

Article number ORG 540S
Trade name Wash buffer, 50x-Concentrate

Manufacturer / Supplier

ORGENTEC Diagnostika GmbH
Carl-Zeiss-Straße 49
55129 Mainz
Germany

Tel.: +49-6131-9258-0
Fax: +49-6131-9258-58
E-mail: orgentec@orgentec.com
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2. Composition / Data on components

Chemical characterization

Preparation

Description

Mixture of substances listed below with non hazardous additions.

Ingredients:

Tris buffer
sodium chloride

Hazardous ingredients:

Name according to EC Directives:
Hazard symbols: T+, N
EC-Index-No.: 011-004-00-7

Sodium azide
R-phrases: 28-32-50/53

very toxic if swallowed. Contact with acids liberates very toxic gas. Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

CAS-No.: 26628-22-8 Content: ≤ 0.09 %

3. Hazard information

Hazard description

Non hazardous

Information concerning to particular hazards to man and environment

None

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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4. First aid measures

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation

Supply fresh air; consult doctor in case of complaints.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water.

After swallowing

Call for a doctor immediately.

5. Fire fighting measures

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special protective equipment for fire fighting:

No special measures required.

6. Accidental release measure

Person-related safety precautions

Not required.

Measures for environmental protection

Prevent sewage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting

Absorb with liquid-binding material. Dispose material as waste according to item 13.

7. Handling and storage

Handling

Information for safe handling

No special measures required

Information about fire - and explosion protection

No special measures required.

Storage

Requirements to be met by storerooms and receptacles

No special requirements.

Information about storage in one common storage facility

Not required.

Further information about storage conditions

None.

Class according to regulation on flammable liquids

Void

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8. Exposure controls and personal protection gear

Additional information about design of technical facilities

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace

26628-22-8 sodium azide

MAK (Germany): 0,2 mg/m³

Additional information

The lists valid during the making were used as basis.

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Respiratory protection

Not required.

Protection of hands

Protective gloves.

Eye protection

Goggles recommended during refilling.

9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	characteristic
Melting point	not available
Boiling point	not available
Ignition temperature	not available
Self igniting	Product is not selfigniting.
Flash point	not available
Danger of Explosion	Product does not present an explosion hazard.
Explosion limits	lower not available
upper not available	
Relative vapour density	not available
Density (20 °C)	1.02 g/cm ³
Solubility in water (20 °C)	Fully miscible

10. Stability and reactivity

Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

Dangerous reactions

No dangerous reactions known

Dangerous decomposition products

No dangerous decomposition products known

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15. Regulations

Labelling according to EC Directives

The product has been classified and marked in accordance with EU Directives / Ordinance on hazardous Materials.

Code letter and hazard designation of product

Not applicable.

Hazard-determining components of labelling

Not applicable.

Risk phrases

Not applicable.

Safety phrases

Not applicable.

National regulations

Classification according to VbF

Void

Waterhazard class

Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

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