

# ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 604S  
Trade name          Anti-dsDNA Screen Standards

## 1. Identification of substance

### **Product details**

Article number                      ORG 604S  
Trade name                          Anti-dsDNA 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:  
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 %

### **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 604S  
Trade name            Anti-dsDNA 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**

CO<sub>2</sub>, 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 604S  
Trade name          Anti-dsDNA 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/m<sup>3</sup>

#### **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 <sup>3</sup>
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 604S  
Trade name          Anti-dsDNA 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 604S  
Trade name          Anti-dsDNA Screen Controls

## 1. Identification of substance

### **Product details**

Article number                      ORG 604S  
Trade name                          Anti-dsDNA Screen Controls

### **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

### **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 604S  
Trade name          Anti-dsDNA 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**

CO<sub>2</sub>, 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 604S  
Trade name            Anti-dsDNA Screen Controls

### 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/m<sup>3</sup>

#### **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 <sup>3</sup>
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 604S  
Trade name          Anti-dsDNA 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 604S  
Trade name          Anti-dsDNA Screen Enzyme Conjugate IgG/M/A

## 1. Identification of substance

### Product details

Article number      ORG 604S  
Trade name          Anti-dsDNA Screen Enzyme Conjugate IgG/M/A

### 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  
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 604S

Trade name          Anti-dsDNA 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**

CO<sub>2</sub>, 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 604S  
Trade name          Anti-dsDNA 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/m<sup>3</sup>

#### **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 604S  
Trade name          Anti-dsDNA 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 <sup>3</sup>
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 604S

Trade name            Anti-dsDNA 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 604S  
Trade name           TMB Substrate Solution

## 1. Identification of substance

### **Product details**

Article number                      ORG 604S  
Trade name                          TMB-Substrate solution

### **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.

### **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**

CO<sub>2</sub>, 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 604S  
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 604S  
Trade name           Stop Solution

## 1. Identification of substance

### **Product details**

Article number                      ORG 604S  
Trade name                           Stop Solution

### **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

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 604S  
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 604S  
Trade name          Stop Solution

### 8. Exposure controls and personal protection gear

#### **Specific control parameter**

MAK Germany (max. workplace conc.) Hydrogen chloride:  
5 ml/m<sup>3</sup> or 7.6 mg/m<sup>3</sup>

#### **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      not available upper      not available
Relative vapour density	not available
Density ( 20 °C)	1.02 g/cm <sup>3</sup>
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 604S  
Trade name          Stop Solution

### 11. Toxicological information

#### **Acute toxicity**

LC<sub>50</sub> (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 604S  
Trade name          Sample buffer, 5x-Concentrate

## 1. Identification of substance

### **Product details**

Article number                      ORG 604S  
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  
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 %

## 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 604S  
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**

CO<sub>2</sub>, 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 604S  
Trade name          Sample buffer, 5x-Concentrate

### 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/m<sup>3</sup>

#### **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 <sup>3</sup>
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 604S  
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 604S  
Trade name         Wash buffer, 50x-Concentrate

## 1. Identification of substance

### **Product details**

Article number                      ORG 604S  
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  
http:    www.orgentec.com

## 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.

## ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 604S  
Trade name          Wash buffer, 50x-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**

CO<sub>2</sub>, 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





## ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 604S  
Trade name          Wash buffer, 50x-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

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