

# ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name          Standards

## 1. Identification of substance

### **Product details**

Article number      ORG 632  
Trade name          Standards

### **Manufacturer / Supplier**

ORGENTEC Diagnostika GmbH  
Postfach 100352  
55134 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 nonhazardous additions.

### **Hazardous ingredients:**

Name according to EC Directives:	Sodium azide
Hazard symbols:            T+	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 and antibodies directed against HIV. 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**

Xn Harmful

### **Information concerning to particular hazards to man and environment**

R 22 Harmful if swallowed.

### **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

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Trade name           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**

Prevent seepage 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 (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated 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

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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/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		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 <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 632  
Trade name         Standards

**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.

Harmful

**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

**13. Disposal considerations**

***Product – Recommendation***

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

***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.:
Ems	Packaging group
	MFAG

Correct technical name

***Air transport ICAO-TI and IATA-DGR***

ICAO/IATA Class	UN/ID-No.:
	Packaging group

Correct technical name

## ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name           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**

Xn Harmful

#### **Hazard-determining components of labelling**

sodium azide

#### **Risk phrases**

22 Harmful if swallowed.

#### **Safety phrases**

36 Wear suitable protective clothing.

#### **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**

Export

Date of issue:    11.5.2000      Supersedes edition of:  --.--.----

# ORGENTEC

# ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name          Controls

## 1. Identification of substance

### **Product details**

Article number      ORG 632  
Trade name          Controls

### **Manufacturer / Supplier**

ORGENTEC Diagnostika GmbH  
Postfach 100352  
55134 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 nonhazardous additions.

### **Hazardous ingredients:**

Name according to EC Directives:	Sodium azide
Hazard symbols:            T+	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 and antibodies directed against HIV. 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**

Xn Harmful

### **Information concerning to particular hazards to man and environment**

R 22 Harmful if swallowed.

### **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 632  
Trade name            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 seepage 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 (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated 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

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Trade name            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	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 <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 632  
Trade name         Controls

### 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.

Harmful

### 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

### 13. Disposal considerations

**Product – Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**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.:  
Ems                                    Packaging group  
  MFIAG

Correct technical name

**Air transport ICAO-TI and IATA-DGR**

ICAO/IATA Class                      UN/ID-No.:  
  Packaging group

Correct technical name

## ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name            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**

Xn Harmful

#### **Hazard-determining components of labelling**

sodium azide

#### **Risk phrases**

22 Harmful if swallowed.

#### **Safety phrases**

36 Wear suitable protective clothing.

#### **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**

Export

Date of issue:    11.5.2000      Supersedes edition of:  --.--.----

# ORGENTEC

# ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name          Anti-human-IgG Conjugate

## 1. Identification of substance

### *Product details*

Article number      ORG 632  
Trade name          Anti-human-IgG Conjugate

### *Manufacturer / Supplier*

ORGENTEC Diagnostika GmbH  
Postfach 100352  
55134 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 nonhazardous additions.

### *Hazardous ingredients:*

Name according to EC Directives:	Sodium azide
Hazard symbols:            T+	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*

Xn Harmful

### *Information concerning to particular hazards to man and environment*

R 22 Harmful if swallowed.

### *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 632  
Trade name          Anti-human-IgG Conjugate

### 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 seepage 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 (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated 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 632  
Trade name            Anti-human-IgG Conjugate

### 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	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 <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 632  
Trade name Anti-human-IgG Conjugate

**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.

Harmful

**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

**13. Disposal considerations**

**Product – Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**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.:  
Ems Packaging group  
Correct technical name MFAG

Correct technical name

**Air transport ICAO-TI and IATA-DGR**

ICAO/IATA Class UN/ID-No.:  
Correct technical name Packaging group

## ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name          Anti-human-IgG Conjugate

### 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**

Xn Harmful

#### **Hazard-determining components of labelling**

sodium azide

#### **Risk phrases**

22 Harmful if swallowed.

#### **Safety phrases**

36 Wear suitable protective clothing.

#### **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**

Export

Date of issue:    11.5.2000      Supersedes edition of:  --.--.----

# ORGENTEC

# ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name            TMB Substrate Solution

## 1. Identification of substance

### *Product details*

Article number      ORG 632  
Trade name            TMB-Substrate solution

### *Manufacturer / Supplier*

ORGENTEC Diagnostika GmbH  
Postfach 100352  
55134 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 nonhazardous 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 632  
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 exe 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

**ORGENTEC Material Safety Data Sheet**

according to 91/155 EC

Article number      ORG 632  
Trade name          TMB Substrate Solution

**10. Stability and reactivity**

Stable

**11. Toxicological information****Hazardous decomposition products**Upon evaporation of water, may emit carbon monoxide, carbon dioxide, SO<sub>x</sub>**Hazardous polymerization**

Will not occur

**Incompatibility materials to avoid**

Other strong oxidizing agents, acid chlorides, acid anhydrides

**12. Ecological information**

N/A

**13. Disposal considerations**

Observe all federal, state and local laws concerning health and pollution

**14. Transport information****Land transport ADR/RID (cross-border)****ADR/RID class** -**Maritime transport IMDG****IMDG Class** -**Marine pollutant** No**Air transport ICAO-TI and IATA-DGR****ICAO/IATA Class** -**15. Regulations****Labelling according to EU guidelines**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

This product is a mixture that may contain one or more hazardous chemicals.

**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**

Export

## ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name            Stop Solution

### 1. Identification of substance

#### **Product details**

Article number            ORG 632  
Trade name                Stop solution

#### **Manufacturer / Supplier**

ORGENTEC Diagnostika GmbH  
Postfach 100352  
55134 Mainz  
Germany

Tel.:   -49-6131-9258-0  
Fax:    -49-6131-9258-58  
E-mail: [orgentec@orgentec.com](mailto:orgentec@orgentec.com)  
http:   [www.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 632  
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 632  
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.

Article number      ORG 632  
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: Harmfull 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**

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

**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 632  
 Trade name           Stop Solution

**14. Transport information*****Land transport ADR/RID and GGVS/GGVE (Germany)***

ADR/RID class           8                                   number and letter           5c

GGVS/GGVE class       8                                   number and letter           5c

name of material       1789 CHLORWASSERSTOFFSAURE (SAZSAURE)

***Maritime transport IMDG***

IMDG Class              8                                   UN-No.:                      1789

Packaging group       III

Ems                       8-03                               MFAG                         700

Correct technical name   HYDROCHLORIC ACID

***Air transport ICAO-TI and IATA-DGR***

ICAO/IATA Class        8                                   UN/ID-No.:                 1789

Packaging group       III

Correct technical name   HYDROCHLORIC ACID

The transport regulations are cited according to international regulations and in the form applicable in Germany (GGVS/GGVE). Possible national deviations in other countries are not considered.

**15. Regulations*****Labelling according to EC Directives***

Symbol:                 ---

R-phrases:             ---

S-phrases:             ---

**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***

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Date of issue:   11.5.2000      Supersedes edition of: ---.--.----

# ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name          Sample buffer, concentrate

## 1. Identification of substance

### **Product details**

Article number      ORG 632  
Trade name          Sample buffer, concentrate

### **Manufacturer / Supplier**

ORGENTEC Diagnostika GmbH  
Postfach 100352  
55134 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**

Preperation

### **Description**

Mixture of sustances listed below with nonhazardous additions.

### **Hazardous ingredients:**

Name according to EC Directives:	Sodium azide
Hazard symbols:            T+	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**

Xn Harmful

### **Information concerning to particular hazards to man and environment**

R 22 Harmful if swallowed.

### **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 632  
Trade name          Sample buffer, 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 seepage 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 (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated 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 632  
Trade name          Sample buffer, 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		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 <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 632  
Trade name           Sample buffer, concentrate

**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.

Harmful

**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

**13. Disposal considerations****Product – Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**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.:  
Ems    Packaging group  
MFAG

Correct technical name

**Air transport ICAO-TI and IATA-DGR**ICAO/IATA Class   UN/ID-No.:  
Packaging group

Correct technical name

## ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name          Sample buffer, 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**

Xn Harmful

#### **Hazard-determining components of labelling**

sodium azide

#### **Risk phrases**

22 Harmful if swallowed.

#### **Safety phrases**

36 Wear suitable protective clothing.

#### **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**

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# ORGENTEC

# ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name          Wash buffer, concentrate

## 1. Identification of substance

### *Product details*

Article number      ORG 632  
Trade name          Wash buffer, concentrate

### *Manufacturer / Supplier*

ORGENTEC Diagnostika GmbH  
Postfach 100352  
55134 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 nonhazardous additions.

### *Hazardous ingredients:*

Name according to EC Directives:	Sodium azide
Hazard symbols:      T+	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*

Xn Harmful

### *Information concerning to particular hazards to man and environment*

R 22 Harmful if swallowed.

### *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 632  
Trade name            Wash buffer, 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 seepage 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 (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated 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 632  
Trade name            Wash buffer, 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	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 <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 632  
Trade name          Wash buffer, concentrate

## 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.

Harmful

## 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

## 13. Disposal considerations

**Product – Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**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  
Ems    MFRAG

Correct technical name

**Air transport ICAO-TI and IATA-DGR**

ICAO/IATA Class                                    UN/ID-No.:  
  Packaging group

Correct technical name

## ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number      ORG 632  
Trade name           Wash buffer, 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**

Xn Harmful

#### **Hazard-determining components of labelling**

sodium azide

#### **Risk phrases**

22 Harmful if swallowed.

#### **Safety phrases**

36 Wear suitable protective clothing.

#### **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**

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