

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 502
Trade name Standards

1. Identification of substance

Product details

Article number ORG 502
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

Article number ORG 502
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

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 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 502
Trade name 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	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

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 502
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 IMDGIMDG Class UN-No.:
Ems Packaging group
MFAG

Correct technical name

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

Correct technical name

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 502
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 502
Trade name Controls

1. Identification of substance

Product details

Article number ORG 502
Trade name Controls

Manufacturer / Supplier

ORGENTEC Diagnostika GmbH
Postfach 100352
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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 502
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

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 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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Article number ORG 502
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/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

ORGENTEC Material Safety Data Sheet

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Article number ORG 502
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:

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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 502
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

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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 502
Trade name Anti-human-IgG Conjugate

1. Identification of substance

Product details

Article number ORG 502
Trade name Anti-human-IgG Conjugate

Manufacturer / Supplier

ORGENTEC Diagnostika GmbH
Postfach 100352
55134 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 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 502
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

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 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 502
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/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

ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 502
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 502
Trade name TMB Substrate Solution

1. Identification of substance

Product details

Article number ORG 502
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

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 502
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 502
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_x**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 502
Trade name Stop Solution

1. Identification of substance

Product details

Article number ORG 502
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
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 502
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

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Article number ORG 502
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 not available upper 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

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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: 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 502
 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
Ems	8-03	Packaging group	III
		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

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ORGENTEC Material Safety Data Sheet

according to 91/155 EC

Article number ORG 502
Trade name Sample buffer, concentrate

1. Identification of substance

Product details

Article number ORG 502
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.

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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 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

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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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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 IMDGIMDG Class UN-No.:
Ems Packaging group
MFAG

Correct technical name

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

Correct technical name

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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

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: --.--.----

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