

**Fluittest® BIL total DCA R1**

Revision date: 23.11.2017

Product code: 108119910890

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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Product group: Endprodukt

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

In-vitro-Diagnostics

**1.3. Details of the supplier of the safety data sheet**

Company name:	Analyticon® Biotechnologies AG	
Street:	Am Mühlberg 10	
Place:	D-35104 Lichtenfels	
Telephone:	+49 (0) 6454/7991-0	Telefax: +49 (0) 6454/7991-30
e-mail:	support@analyticon-diagnostics.com	
Contact person:	Zentrale	Telephone: +49 (0) 6454/7991-0
Internet:	http://www.analyticon-diagnostics.com	

**1.4. Emergency telephone number:**

Giftnotruf Mainz: +49 (0) 6131 / 19240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard Statements:  
May be corrosive to metals.  
Causes serious eye irritation.

**2.2. Label elements****Regulation (EC) No. 1272/2008**

Signal word: Warning

Pictograms:

**Hazard statements**

H290 May be corrosive to metals.  
H319 Causes serious eye irritation.

**Precautionary statements**

P337+P313 If eye irritation persists: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P390 Absorb spillage to prevent material damage.  
P234 Keep only in original container.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

in aqueous solution



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## Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
-	Hydrochloric acid 37 %			1-5%
	231-595-7	017-002-01-X		
	Skin Corr. 1B, STOT SE 3; H314 H335			
57-09-0	Cetrimonium bromide			1-2 %
	200-311-3			
9036-19-5	Polyethoxyethanols			<1 %
9002-93-1	Triton® X-100			<1 %
	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 2; H302 H318 H411			

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

**4.1. Description of first aid measures****General information**

Move victim out of danger zone.

**After inhalation**

Provide fresh air.

**After contact with skin**

Change contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

Never give anything by mouth to an unconscious person or a person with cramps. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician in any case!

**4.2. Most important symptoms and effects, both acute and delayed**

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn.

**5.2. Special hazards arising from the substance or mixture**In case of fire may be liberated: Sulphur oxides, Nitrogen oxides (NO<sub>x</sub>), Hydrogen bromide (HBr) Hydrogen chloride (HCl) Carbon monoxide Carbon dioxide (CO<sub>2</sub>)**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not allow to enter into soil/subsoil.

**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Use only in well-ventilated areas.

The floor should be leak tight, jointless and not absorbent.

All work processes must always be designed so that the following is excluded:  
inhalation. skin contact. Eye contact.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

When using do not smoke.

**Further information on handling**

When using do not eat, drink, smoke, sniff.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place.

**Advice on storage compatibility**

The product is not: Combustible. Exclude sources of ignition-no smoking

**Further information on storage conditions**

Recommended storage temperature: of °C: 2 up to °C: 8

Protect against: heat. UV-radiation/sunlight.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7647-01-0	Hydrogen chloride (gas and aerosol mists)	1	2		TWA (8 h)	WEL
		5	8		STEL (15 min)	WEL

**8.2. Exposure controls****Protective and hygiene measures**

Change contaminated clothing. When using do not eat or drink. Wash hands before breaks and after work.

**Eye/face protection**

Eye protection: Tightly sealed safety glasses.

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**Hand protection**

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN 374  
Breakthrough times and swelling properties of the material must be taken into consideration.

**Skin protection**

Suitable protective clothing: Lab apron.  
Footwear: Chemical resistant safety shoes.

**Respiratory protection**

Respiratory protection necessary at: insufficient ventilation. Handling larger quantities.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid  
Colour: colourless  
Odour: characteristic

**Test method**

pH-Value (at 25 °C): 0,78-0,85

**Changes in the physical state**

Melting point: The product has not been tested.  
Initial boiling point and boiling range: The product has not been tested.

**Explosive properties**

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

**Oxidizing properties**

Not oxidizing.

Vapour pressure: Corresponds to the vapour pressure of water.

Density (at 20 °C): 1,1024 g/cm<sup>3</sup>

Water solubility: completely miscible  
(at 20 °C)

**SECTION 10: Stability and reactivity****10.1. Reactivity**

May be corrosive to metals.

**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.4. Conditions to avoid**

May cause decomposition by long-term light influence.

**10.6. Hazardous decomposition products**

Sulphur oxides Nitrogen oxides (NO<sub>x</sub>). Hydrogen bromide (HBr) Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

No information available.



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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
57-09-0	Cetrimonium bromide				
	oral	LD50 410 mg/kg	Ratte		
9002-93-1	Triton® X-100				
	oral	LD50 1800 mg/kg	Ratte		
	dermal	LD50 8000 mg/kg	Kaninchen		

### Irritation and corrosivity

No information available.

### Sensitising effects

No information available.

### Carcinogenic/mutagenic/toxic effects for reproduction

No information available.

### STOT-repeated exposure

No information available.

### Specific effects in experiment on an animal

No information available.

### Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
-	Hydrochloric acid 37 %					
	Acute fish toxicity	LC50 862 mg/l	96 h	Leuciscus idus		
57-09-0	Cetrimonium bromide					
	Acute fish toxicity	LC50 0,3 mg/l	96 h	Danio rerio		
	Acute algae toxicity	ErC50 0,01 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 0,22 mg/l	48 h	Daphnia magna		
9002-93-1	Triton® X-100					
	Acute fish toxicity	LC50 8,9 mg/l	96 h	Pimephales promelas		
	Acute crustacea toxicity	EC50 26 mg/l	48 h	Daphnia		

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available



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### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
57-09-0	Cetrimonium bromide	2,26

### 12.4. Mobility in soil

No data available

### 12.6. Other adverse effects

No data available

### Further information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation.

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

#### Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals  
Classified as hazardous waste.

#### Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals  
Classified as hazardous waste.

#### Waste disposal number of contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

#### Contaminated packaging

Water (with cleaning agent). Completely emptied packages can be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number:

UN 3264

#### 14.2. UN proper shipping name:

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

#### 14.3. Transport hazard class(es):

8

#### 14.4. Packing group:

III

Hazard label:

8



Classification code:

C1

Limited quantity:

LQ7

Hazard No:

80

Tunnel restriction code:

E



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### Other applicable information (land transport)

Special provisions: 274

E1

Transport category: 3

### Inland waterways transport (ADN)

**14.1. UN number:** UN 3264  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Classification code: C1

Limited quantity: LQ7

### Other applicable information (inland waterways transport)

Special provisions: 274

E1

### Marine transport (IMDG)

**14.1. UN number:** UN 3264  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Marine pollutant: •  
Limited quantity: 5 L  
EmS: F-A, S-B

### Other applicable information (marine transport)

Special provisions: 223, 274, 944

E1

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 3264  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Limited quantity Passenger: 1 L  
IATA-packing instructions - Passenger: 818  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 820  
IATA-max. quantity - Cargo: 60 L



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#### Other applicable information (air transport)

E1

: Y818

Special provisions: A3

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3: Hydrochloric acid 37 %

##### National regulatory information

Water contaminating class (D): 2 - water contaminating

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,8,9,10,15.

#### Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*