

**CHOL Standard**

Revision date: 23.11.2017

Product code: 4R40999

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

CHOL Standard

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 categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Dam. 1

Reproductive toxicity: Repr. 1B

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed, in contact with skin or if inhaled.

Causes serious eye damage.

May damage fertility. May damage the unborn child.

Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

2-methoxyethanol, ethylene glycol monomethyl ether

Triton® X-100

Signal word: Danger**Pictograms:****Hazard statements**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H318 Causes serious eye damage.

H360FD May damage fertility. May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements

P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container to

Special labelling of certain mixtures

Restricted to professional users.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Cholesterol in 2-methoxyethanol, ethylene glycol monomethyl ether

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
109-86-4	2-methoxyethanol, ethylene glycol monomethyl ether			90 - < 95 %
	203-713-7	603-011-00-4		
	Flam. Liq. 3, Repr. 1B, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H226 H360FD H332 H312 H302			
9002-93-1	Triton® X-100			1 - < 5 %
	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

After contact with skin, wash immediately with: Water. Change contaminated clothing. Medical treatment necessary.

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

 Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.
 Caution if victim vomits: Risk of aspiration!

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

Treat symptomatically.

SECTION 5: Firefighting measures

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5.1. Extinguishing media**Suitable extinguishing media**

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

Additional information

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

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

Provide adequate ventilation.
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). Treat the recovered material as prescribed in the section on waste disposal.

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

If handled uncovered, arrangements with local exhaust ventilation have to be used.
Do not breathe gas/fumes/vapour/spray.
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 locked up.
Store in a place accessible by authorized persons only.
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

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8.1. Control parameters**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
109-86-4	2-Methoxyethanol	1	3		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses.

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**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: 0,99 g/cm³

Water solubility: completely miscible

SECTION 10: Stability and reactivity**10.4. Conditions to avoid**

May cause decomposition by long-term light influence.

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10.6. Hazardous decomposition productsCarbon dioxide. Carbon monoxide. Nitrogen oxides (NO_x).**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Toxic. Acute toxicity, oral.

Acute toxicity, inhalant.

Acute toxicity, dermal.

ATEmix calculated

ATE (oral) 519,4 mg/kg; ATE (dermal) 1348,8 mg/kg; ATE (inhalative vapour) 11,59 mg/l; ATE (inhalative aerosol) 1,581 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
109-86-4	2-methoxyethanol, ethylene glycol monomethyl ether				
	oral	ATE mg/kg	500		
	dermal	LD50 mg/kg	1280	Rabbit	
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
9002-93-1	Triton® X-100				
	oral	LD50 mg/kg	1800	Ratte	
	dermal	LD50 mg/kg	8000	Kaninchen	

Irritation and corrosivity

No information available.

Sensitising effects

No information available.

Carcinogenic/mutagenic/toxic effects for reproduction

May impair fertility.

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**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
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

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
109-86-4	2-methoxyethanol, ethylene glycol monomethyl ether	-0,77

12.4. Mobility in soil

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. 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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

UN 2810

14.2. UN proper shipping name:

TOXIC LIQUID, ORGANIC, N.O.S.



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14.3. Transport hazard class(es): 6.1

14.4. Packing group: I

Hazard label: 6.1



Classification code: T1

Limited quantity: LQ0

Hazard No: 66

Tunnel restriction code: C/E

Other applicable information (land transport)

Special provisions: 274 315 614

E5

Transport category: 1

Inland waterways transport (ADN)

14.1. UN number: UN 2810

14.2. UN proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.

14.3. Transport hazard class(es): 6.1

14.4. Packing group: I

Hazard label: 6.1



Classification code: T1

Limited quantity: LQ0

Other applicable information (inland waterways transport)

Special provisions: 274 315 614 802

E5

Marine transport (IMDG)

14.1. UN number: UN 2810

14.2. UN proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.

14.3. Transport hazard class(es): 6.1

14.4. Packing group: I

Hazard label: 6.1



Marine pollutant: •

Limited quantity: None

EmS: F-A, S-A

Other applicable information (marine transport)

Special provisions: 274, 315

E5

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2810

14.2. UN proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.

14.3. Transport hazard class(es): 6.1



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14.4. Packing group:

Hazard label:

I

6.1



Limited quantity Passenger:

-

IATA-packing instructions - Passenger:

603

IATA-max. quantity - Passenger:

1 L

IATA-packing instructions - Cargo:

604

IATA-max. quantity - Cargo:

30 L

Other applicable information (air transport)

E5

: -

Special provisions: A3 A4 A137

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

2-methoxyethanol, ethylene glycol monomethyl ether

2004/42/EC (VOC):

94,9 %

National regulatory information

Water contaminating class (D):

3 - highly water contaminating

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 4,11.

Relevant H and EUH statements (number and full text)

H226

Flammable liquid and vapour.

H302

Harmful if swallowed.

H302+H312+H332

Harmful if swallowed, in contact with skin or if inhaled.

H312

Harmful in contact with skin.

H318

Causes serious eye damage.

H332

Harmful if inhaled.

H360FD

May damage fertility. May damage the unborn child.

H411

Toxic to aquatic life with long lasting effects.

H412

Harmful 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.)