

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Wash solution 3**

Revision date: 18.04.2019

Product code: 1RB0013

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

Wash solution 3

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 Mühlenberg 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:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes skin irritation.

Causes serious eye damage.

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

2-aminoethanol; ethanolamine

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

H315 Causes skin irritation.

H318 Causes serious eye damage.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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### Special labelling of certain mixtures

Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



### Hazard statements

H318

### Precautionary statements

P280-P305+P351+P338-P310

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
144-62-7	oxalic acid	<7 %
	205-634-3	
	607-006-00-8	
	Acute Tox. 4, Acute Tox. 4; H312 H302	
9003-11-6	PEG-PPG-PEG	<5 %
141-43-5	2-aminoethanol; ethanolamine	<4 %
	205-483-3	
	603-030-00-8	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B; H332 H312 H302 H314	
111-90-0	2-(2-Ethoxyethoxy)ethanol	<4 %
	203-919-7	
127-09-3	Sodiumacetate	<1 %
	204-823-8	
27731-62-0	Polyoxyalkylene alkyl ether	<0,5 %

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

Medical treatment necessary. Provide fresh air.

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#### 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!

## 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.

#### 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. Wear personal protection equipment.

### 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

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container in a well-ventilated place.

#### Hints on joint storage

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

#### Further information on storage conditions

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

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
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	WEL
		3	7.6		STEL (15 min)	WEL
144-62-7	Oxalic acid	-	1		TWA (8 h)	WEL
		-	2		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
pH-Value:	7

#### 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.

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**Oxidizing properties**

Not oxidizing.

Vapour pressure:

Corresponds to the vapour pressure of water.

Density:

 1,02 g/cm<sup>3</sup>

Water solubility:

completely miscible

### SECTION 10: Stability and reactivity

**10.4. Conditions to avoid**

May cause decomposition by long-term light influence.

**10.6. Hazardous decomposition products**

 Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

### SECTION 11: Toxicological information

**11.1. Information on toxicological effects**
**Acute toxicity**

Toxic. Acute toxicity, oral. Acute toxicity, dermal. No information available.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
144-62-7	oxalic acid				
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			
9003-11-6	PEG-PPG-PEG				
	oral	LD50 9380 mg/kg	Ratte		
141-43-5	2-aminoethanol; ethanolamine				
	oral	LD50 1515 mg/kg	Rat		
	dermal	LD50 1025 mg/kg	Rabbit	IUCLID	
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			
111-90-0	2-(2-Ethoxyethoxy)ethanol				
	oral	LD50 5490 mg/kg	rat		
	dermal	LD50 4200 mg/kg	rabbit		
	inhalation (4 h) vapour	LC50 >5,24 mg/l	rat		
127-09-3	Sodiumacetate				
	oral	LD50 3530 mg/kg	rat		
	dermal	LD50 >10000 mg/kg	rabbit		

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**Irritation and corrosivity**

No information available.

**Sensitising effects**

No information available.

**Carcinogenic/mutagenic/toxic effects for reproduction**

May impair fertility. @1101.B110346 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
9003-11-6	PEG-PPG-PEG					
	Acute fish toxicity	LC50 mg/l	>10000	96 h	andere Fische	
141-43-5	2-aminoethanol; ethanolamine					
	Acute fish toxicity	LC50	150 mg/l	96 h	Onchorhynchus mykiss	IUCLID
	Acute algae toxicity	ErC50	22 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	65 mg/l	48 h	Daphnia magna	
111-90-0	2-(2-Ethoxyethoxy)ethanol					
	Acute fish toxicity	LC50 mg/l	13900	96 h		
	Acute crustacea toxicity	EC50 mg/l	4000	48 h		

**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
141-43-5	2-aminoethanol; ethanolamine	-1,91 (25°C)
111-90-0	2-(2-Ethoxyethoxy)ethanol	-0,54
127-09-3	Sodiumacetate	-4,22

**12.4. Mobility in soil**

No data available

**12.6. Other adverse effects**

No data available

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**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; 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; 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)**

<b>14.1. UN number:</b>	UN 2491
<b>14.2. UN proper shipping name:</b>	ETHANOLAMINE SOLUTION
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8



Classification code:	C7
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

**Other applicable information (land transport)**

Special provisions: 274 614

E1

Transport category: 2

**Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	UN 2491
<b>14.2. UN proper shipping name:</b>	ETHANOLAMINE SOLUTION



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**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Classification code: C7

Limited quantity: 5 L

Excepted quantity: E1

#### Other applicable information (inland waterways transport)

Special provisions: 274 614 802

E1

#### Marine transport (IMDG)

**14.1. UN number:** UN 2491

**14.2. UN proper shipping name:** ETHANOLAMINE SOLUTION

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Special Provisions: 223

Limited quantity: 5 L

Excepted quantity: E1

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 2491

**14.2. UN proper shipping name:** ETHANOLAMINE SOLUTION

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Special Provisions: A3 A803

Limited quantity Passenger: 1 L

Passenger LQ: Y841

Excepted quantity: E1

IATA-packing instructions - Passenger: 852

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 856

IATA-max. quantity - Cargo: 60 L

#### Other applicable information (air transport)

E1



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: Y611

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**

2004/42/EC (VOC): 13,7 %

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 2.

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method

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

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

**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.)*