

Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

Disinfectant solution, not ready to use

Order No. 0201-0003-001

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Cleaning of the flowing system for Glucose- and Lactate analyzers:

BIOSEN, EBIO, ESAT, economic, SUPER GL, GL ambulance, GL easy, G, G1 and G2.

1.3 Details of the supplier of the safety data sheet

Address

EKF-diagnostic GmbH
Ebendorfer Chaussee 3
D-39179 Barleben

Telephone no. +49 (0)3 92 03 / 7 85 - 0

Fax no. +49 (0)3 92 03 / 7 85 - 16

Information provided by / telephone

EKF-diagnostic GmbH

Telephone: +49 (0)39203 / 785 - 0 (7 am - 4 pm on workdays)

Advice on Safety Data Sheet

support@ekf-diagnostic.de

1.4 Emergency telephone number

+49 (0) 551 / 19240 Poison Information Centre North(Giftinformationszentrale Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Directive 67/548/EEC or 1999/45/EC

N; R50

R10

Xi; R41

Xn; R20/22

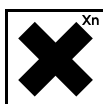
Xi; R37/38

R42/43

2.2 Label elements

Labelling according to Directive 1999/45/EC

Hazard symbols



Harmful



Dangerous for the environment

Hazardous component(s) to be indicated on label, contains:

Glutaral

Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

R phrases

10	Flammable.
20/22	Harmful by inhalation and if swallowed.
37/38	Irritating to respiratory system and skin.
41	Risk of serious damage to eyes.
42/43	May cause sensitization by inhalation and skin contact.
50	Very toxic to aquatic organisms.

S phrases

23.6	Do not breathe vapour/spray.
24	Avoid contact with skin.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39	Wear suitable gloves and eye/face protection.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization
aqueous solution

Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification 67/548/EEC	Concentration
			%-b.w.
1	(ethylenedioxy)dimethanol		
	3586-55-8 222-720-6 - -	Xn; R22 Xi; R38 Xi; R41	> 10.00 - < 25.00 %-b.w.
2	propan-2-ol		
	67-63-0 200-661-7 603-117-00-0 -	F; R11 Xi; R36 R67	> 5.00 - < 10.00 %-b.w.
3	Glutaral		
	111-30-8 203-856-5 605-022-00-X -	T; R23/25 C; R34 R42/43 N; R50	> 5.00 - < 10.00 %-b.w.
4	nonionic tensides		
	- - - -	Xn; R22 Xi; R41	> 1.00 - < 5.00 %-b.w.
5	nonionic tenside		
	- - - -	Xi; R41	> 1.00 - < 5.00 %-b.w.
6	Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides		
	68391-01-5 269-919-4 - -	C; R34 Xn; R22 N; R50	> 0.50 - < 1.00 %-b.w.

Full Text for all R-phrases: pls. see section 16

No	Note	Specific concentration limits
3	-	R43: C >= 0.5% R36/37/38: C >= 0.5% R41: C >= 2% R20: C >= 2% R22: C >= 2% R37/38: C >= 2% R34: C >= 10% R23: C >= 25% R25: C >= 50%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

After inhalation

Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

After ingestion

Rinse out mouth and give plenty of water to drink. Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide; extinguishing powder; Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Avoid contact with eyes and skin.

Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a well-ventilated place. Keep from freezing.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

Advice on storage assembly

Do not store together with foodstuffs.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
List of approved workplace exposure limits (WELs) / EH40			
Propan-2-ol			
	STEL	1250	mg/m ³ 500 ml/m ³
	TWA	999	mg/m ³ 400 ml/m ³
2	Glutaral	111-30-8	203-856-5
List of approved workplace exposure limits (WELs) / EH40			
Glutaraldehyde			
	STEL	0.2	mg/m ³ 0.05 ml/m ³
	TWA	0.2	mg/m ³ 0.05 ml/m ³
	Skin resorption / sensibilisation	Sen	

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	butyl rubber		
Material thickness		0.7	mm
Appropriate Material	nitrile rubber		
Material thickness		0.4	mm

Other

Standard laboratory clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour
liquid
blue

Safety data sheet in accordance with 1907/2006/EC



Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

Odour	
aldehyde-like	
Odour threshold	
No data available	
pH value	
Value	4
Reference temperature	20 °C
Boiling point / boiling range	
Value	100 °C
Melting point / melting range	
not determined	
Decomposition point / decomposition range	
No data available	
Flash point	
Value	46 °C
Auto-ignition temperature	
Remarks	Product is not selfigniting.
Oxidising properties	
No data available	
Explosive properties	
No data available	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits	
No data available	
Vapour pressure	
No data available	
Vapour density	
No data available	
Evaporation rate	
No data available	
Relative density	
No data available	
Density	
Value	1.04 g/cm ³
Reference temperature	20 °C
Solubility in water	
Remarks	soluble

Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

Viscosity

No data available

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expecting handling the product according to its intended use.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

None, if handled according to order.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Possibility of splitting-off of small amounts of formaldehyde

Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity
No data available
Acute dermal toxicity
No data available
Acute inhalational toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
Reproduction toxicity
No data available
Carcinogenicity
No data available
STOT-single exposure
No data available
STOT-repeated exposure
No data available
Aspiration hazard
No data available
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Irritating effects on the skin and mucous membrane. Possibility of sensitisation through skin contact. Sensitisation possible through inhalation. Danger of acute eye damage.
Other information
The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

SECTION 12: Ecological information

12.1 Toxicity

Fish toxicity
No data available

Daphnia toxicity
No data available

Algae toxicity
No data available

Bacteria toxicity
No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information
Do not discharge into the drains or waters and do not store on public depositories.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company. Concentrate is not allowed to be disposed together with domestic waste. Concentrate is not allowed to be released into the sewerage.

Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1993
Technical name	FLAMMABLE LIQUID, N.O.S.
Danger releasing substance	propan-2-ol
Special Provision 640	640E
Tunnel restriction code	D/E
Label	3

Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

14.2 Transport IMDG

Class	3
Packing group	III
UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Danger releasing substance	propan-2-ol
EmS	F-E+S-E
Label	3
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	III
UN number	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Danger releasing substance	propan-2-ol
Label	3

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances**

Remarks Annex I, part 2, category 6

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

EC Directive 67/548/EC resp. 1999/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

R11	Highly flammable.
R22	Harmful if swallowed.
R23/25	Toxic by inhalation and if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R38	Irritating to skin.
R67	Vapours may cause drowsiness and dizziness.

Safety data sheet in accordance with 1907/2006/EC



Trade name: Disinfectant solution, not ready to use

Current version : 3.0.0, issued: 22.03.2013

Replaced version: 2.0.0, issued: 17.12.2012

Region: GB

Department issuing safety data sheet

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 , D-21107 Hamburg

Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.