

Date of printing: 17.02.2010
First Edition: February 2010**1 Identification of the Substance / Preparation and of the Company / Undertaking****1.1 Product**

Product group	MMB Food Pathogen Prep-Kits
Department	GBU Microbiology
Classification	Preparation (mixture)
Product	MMB Food Pathogen PREP-Kit Binding Buffer

1.1.1 Product variants

This Information applies to the following product variants:

Bacteria I
E.coli
Salmonella
Campylobacter
Listeria
DNA/RNA Virus

1.2 Manufacturer / Supplier

Company: Firma: Biotest AG • Landsteiner Str. 5 • 63303 Dreieich • Deutschland
Phone: +49(0)6103/801-666 • Fax: +49(0)6103/801-133 •
e-mail: arbeitssicherheit@biotest.de

Contact for information: • GBU Microbiology Product group management
Phone +49(0)6221/72651-30 • Fax: +49(0) 6221/72651-39 • e-mail: hycon@biotest.de

1.3 Use of the substance/preparation

Test kit for biochemical applications

1.4 Emergency Phone see Manufacturer / Supplier

External Phone: +49(0)6131/19 240, Medizinische Klinik und Poliklinik der Universität Mainz

1.5 Principal demands according to Art. 32 REACH

- Registration number(s)	no registration required
- Authorisation	none
- Restrictions	none

2 Hazards Identification

Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.

3 Composition/Information on Ingredients**3.1 Hazardous Ingredients**

Concentration (weight %)	IUPAC-Name	CAS-No.	Index-No.	EINECS-No..	Hazard Symbol	R-phrases
65 - 90	2-Propano	67-63-0	603-117-00-0	200-661-7	F, Xi	11-36-67

3.2 Chemical characterization of the preparations

Alcoholic buffer solution

4 First aid measures

- | | |
|--------------------------------|---|
| - After inhalation: | remove to fresh air |
| - After skin contact: | wash off with water, remove contaminated clothing immediately. |
| - After contact with the eyes, | rinse the eyes with water with the eyelids open. |
| - If swallowed: | wash out mouth with plenty of water. Call a physician. In case of vomiting: risk of aspiration. Keep respiratory tract clean. |

4.1 Notes to the Physician

Show Physician this Information.

5 Fire-fighting measures

5.1 Suitable extinguishing media

Carbon dioxide, foam, dry chemicals.

5.2 Extinguishing media not to be used

None

5.3 Special exposure hazards arising from substance, combustion products or developing gases

In case of fire, product may form hazardous combustion gases or vapours.
Explosive mixtures possible.

5.4 Special protective equipment required for fire-fighting

In case of fire wear self-contained breathing apparatus and protective clothing.

5.5 Further notes

Prevent fire extinguishing waters from contaminating surface water or the ground water system.
Suppress gases/vapours/mist with a water spray jet.

6 Accidental release measures

6.1 Person-related precautionary measures :

Wear working clothes, safety glasses, laboratory gloves.
Do not breath vapours,
Ensure supply of fresh air in enclosed rooms.

6.2 environmental precautions

Do not empty into drains, explosive properties

6.3 Methods for cleaning/absorption

Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

7 Handling and storage

7.1 Handling

Work under hood, do not inhale substance.
Keep away from open flames, hot surfaces and sources of ignition.

Take precautionary measures against static discharge.

7.2 Storage

Keep tightly closed and cool in a well-ventilated place away from sources of ignition and heat.

7.3 Specific use(s)

No specific requirements

8 Exposure controls and personal protection

8.1 Exposure limit values germany

2-Propanol I
AGW 200 ml/m³ (TRGS 900)

8.2 Personal protective equipment

- Respiratory protection: in case Vapours/aerosols Filter A
- Eye protection: safety glasses
- Hand protection: suitable laboratory gloves (e.g. Nitrile rubber)
- Work hygiene: Take off contaminated clothing immediately, wash hands on finishing work.

8.3 Environmental exposure controls

Prevent substance from contaminating surface water or the ground water system.

9 Physical and chemical properties

(2-Propanol)

9.1 General information

Form: liquid
Colour: colourless to slightly yellow
Odour: alcohol-like

9.2 Important health, safety and environmental information

Boiling temperature: 82,4 °C
Melting temperature: -89,5 °C
Flash point: 12 °C
Decomposition temperature: not available
Ignition temperature: 425°C
Auto flammability: not applicable
Explosion limits: lower: 2 Vol-%
upper: 13,4 Vol-%
Oxidising properties: not applicable
Vapour pressure: 43 hPa (20°C)
Density: 0,786 g/cm³ (20 °C)
Bulk density: not applicable
Solubility in water: soluble
in Ethanol: soluble
pH value: 7,0
distribution coefficient: log Pow 0,05

9.3 Further Information

None

10 Stability and reactivity

10.1 Conditions to be avoided

- Warming

10.2 Substances to be avoided

- Alkali metals, alkaline earth-metals, aluminium powder, oxidisers

10.3 Hazardous decomposition products

- No information available

10.4 Further information

- Hygroscopic, vapours may form explosive mixtures with air.

11 Toxicological information

2-Propanol

11.1 Acute toxicity

- oral

LDL0 human dose 3750 mg/kg

Symptoms: Aspiration hazard if swallowed, can enter lungs and cause damage, aspiration may cause pulmonary oedema and pneumonitis.

LD50 rat dose 5045 mg/kg

- inhalation

LC50 rat dose 46,5 mg/l (4h)

Symptoms: Drowsiness, irritation symptoms in the respiratory tract.

- dermal

LD50 Kaninchen Dosis 12800 mg/kg

Symptoms: Drying-out effect resulting rough and chapped skin.

- eye irritation

Rabbit, result irritations

11.2 Further toxicological information

Subacute to chronic toxicity

tests negative

After absorption:

Headache, dizziness, inebriation, unconsciousness, narcosis

After uptake of large quantities:

respiratory paralysis, coma

Further information

No toxic effects are expected at correct handling

- The product has to be handled with the for chemicals usual caution.

12 Ecological information

2-Propanol

12.1 Ecotoxicity

- toxicity to fish

LC50 *Lepomis macrochirus* dose 1400 mg/l (96h)

- toxicity to *Daphnia* and other aquatic invertebrates

EC50 Entosiphon sulcatum dose 4930 mg/l (72h)
EC50 Daphnia magna dose 13299 mg/l (48h)

- *toxicity to algae*
IC50 Desmodesmos subspicatus dose >1000mg/l (72h)

- *toxicity to bacteria*
EC50 Pseudomonas putida Dosis 1050 mg/l (16h)

12.2 Mobility

No data available

12.3 Persistence and degradability

Readily biodegradable, 95% (21d)

12.4 Bioaccumulative potential

Not existing, log Pow 0,05

12.5 Results of PBT assessment

No data

12.6 Other adverse effects

Not known

12.7 Further information

Theoretical oxygen demand 2400 mg/g
Toxic effects on fish and plankton
Does not cause interferences in waste water treatment if used appropriately
Do not allow to enter water, waste waters or soil

13 Disposal considerations

13.1 Product

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, and in the federal Republic of Germany also by the individual Federal States. 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.

13.2 Contaminated Packaging

Empty, clean by washing, then treat like household waste

14 Transport information

- *ADR/RID*
UN 1219 Isopropanol 3, II

- *IATA*
UN 1219 Isopropanol 3, II

- *IMDG*
UN 1219 Isopropanol 3, II

EmS
Marine pollutant

F-E	S-D
no	

15 Regulatory information

Chemical safety reports of the components not yet available

15.1 Labelling according to EC Directives

Hazard Symbol: F, Xi
Hazard name: Highly flammable, irritant
R-phrases: 11-36-67
S-phrases: (2), 7, 16, 24/25, 26

15.2 German regulations

App.I Seveso II No.: 7b
TA Luft No./class: 5.2.5
Flammable liquids: yes
AGW: 200 ml/m³
Water hazard class: German WGK 1 (weakly hazardous)

16 Other information

Text of R phrases mentioned in Section 3 and 15

R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

Text of S phrases mentioned in Section 15

S(2) Keep out of the reach of children.
S7 Keep container tightly closed.
S16 Keep away from sources of ignition - No smoking.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

The information is based on our current level of knowledge and relates to the product in the state in which it is delivered. They are intended to describe our products from the point of view of safety requirements and are not intended to guarantee any particular properties.

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