BIO-52062 BIO-52063 BIO-52064

# ISOLATE II Blood DNA Kit Safety Data Sheet



A Meridian Life Science® Company



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 20/01/17 Version: 1.0

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

#### **Product identifier** 1.1

Product form:

Product name: 10 - 60 mL Buffer G3

BIO-52062, BIO-52063, BIO-52064, BIO-52065, BIO-52066 & BIO-52067 Cat. No.:

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

#### Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC

0 The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

#### 1.3 Details of the supplier of the safety data sheet

Bioline Reagents Ltd. **Humber Road** London NW2 6EW United Kingdom

T: +44 (0)20 8830 5300

F: +44 (0)20 8452 2822 E-mail: info.uk@bioline.com

#### 1.4 **Emergency telephone number**

+49 (0) 7611 9240 (Germany) (24 hours, 7 days)

### **SECTION 2: Hazard identification**

#### 2.1 Classification of the substance or mixture

#### 10 - 60 mL Buffer G3

Directive 1999/45/EC

R 36

Symbols



CLP Directive 1272/2008/EC

GHS pictograms



Signal word WARNING

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral H319 Eye Irritation cat. 2

#### 2.2 Label elements

According 1999/45/EC small amounts of harmful and highly flammable preparations/mixtures have partly/completely exemption from labelling (no symbols F, O, Xn, Xi, N and no R and S phrases are necessary) until 25-125 mL|g .

According CLP (GHS) inner packages must be only labelled with symbol(s) and product identificator (EU 1272/2008 Annex I - 1.5.1.2). Harmful chemicals/mixtures with signal word: WARNING must not be labelled with H and P phrases until 125 mL or 125 g (EU 1272/2008 Annex I - 1.5.2).



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#### 10 - 60 mL Buffer G3

Directive 1999/45/EC Symbols:



Χi

R 36

Irritating to eyes.

S 26-39

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

CLP Directive 1272/2008/EC GHS pictograms:



Signal word: WARNING

#### 2.3 Other hazards

#### Possible Hazards from physicochemical Properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC, 1999/45/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit.

An individual package has considerably less hazardous potential.

Information pertaining to particular Risks to Human and possible Symptoms

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Information pertaining to particular Risks to the Environment

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Other Hazards

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## **SECTION 3: Composition/Information on Ingredients**

## 3.1 Substances or 3.2 Mixtures

10 - 60 mL Buffer G3

Chemical: guanidine hydrochloride CAS No.: 50-01-1

Concentration: 36 - <50 % Formula: CH<sub>6</sub> CIN<sub>3</sub> Pseudonym: guanidinium chloride

REACH Preregistration (for): 05-2114282045-53-0000 (2018)

EC No.: 200-002-3 Indice No.: 607-148-00-0 RTECS: MF4300000 MFCD: 00013026

TSCA Inventory: listed KE No.: KE-18111

acc. 1999/45/EC: R 22-36 acc. CLP (GHS): H302, H319

Chemical: polyoxyethylene sorbitan monolaurate (Tween® 20) CAS No.: 9005-64-5

00165986

Concentration: 10 - <33 % Formula: C<sub>58</sub> H<sub>114</sub> O<sub>26</sub>

Pseudonym: Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs.

RTECS: TR7400000 MFCD:

TSCA Inventory: listed KE No.: KE-31681

acc. 1999/45/EC: - acc. CLP (GHS): not necessary

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#### 3.3 Remarks

List of R, H and P phrases: see section 16

#### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

#### 4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of Vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free.

#### 4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested.

### 4.2 Most important symptoms and effects, both acute and delayed

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

No additionally recommendations.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

#### 5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapour-air mixtures possible.

#### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

### 5.4 Additional Information

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## **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.

### 6.2 Environmental precautions

not necessary

### 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drains.

#### 6.4 Reference to other sections

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## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

## 7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (German chemical industry): see chapter 12.1

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Storage class (VCI): 10 WGK (DE): 1

7.2.1 Requirements for Stock Rooms and Containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use. ---

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

10 - 60 mL Buffer G3

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1

NIOSH: not listed OSHA: not listed

Chemical: polyoxyethylene sorbitan monolaurate (Tween® 20) CAS No.: 9005-64-5

#### 8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory Protection

Only if additional recommendations in test instruction or packing insert.

8.2.2 Hand Protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC (f.ex. from Ansell or KCL).

8.2.3 Eye Protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

8.2.4 Skin Protection

Not necessary.

8.2.5 Personal Hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

10 - 60 mL Buffer G3

Appearance : liquid Color : slightly yellow Odor : odorless

pH: 3.5-4 Specific gravity: 1.15 g/cm³

## 9.2 Other information

**Relevant Properties of Substance Group** 

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- Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

### SECTION 10: Stability and reactivity

## 10.1 Reactivity

No data available

#### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

No data available. Note: Can form very reactive substances with oxidizing agents.

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#### 10.4 Conditions to avoid

Or when indicated in packing insert.

### 10.5 Incompatible materials

Not necessary.

## 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

#### 10 - 60 mL Buffer G3

Chemical: guanidine hydrochloride CAS No.: 50-01-1

TSCA Inventory: listed California Proposition 65 List: not listed
Australia NICNAS: not listed Canada CEPA 1999: DSL yes
Japan CSCL/PRTR: not listed
Japan PDSCL: not listed
Japan ISHL: not listed

South Korea TCCA: not listed
Korea Exist.Chem.Inventory: KE-18111
LD50<sub>orl rat</sub>: 475 mg/kg
LC50<sub>ihl rat</sub>: 5.34<sub>h</sub> mg/m³
LD50<sub>drm rbt</sub>: >2000 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chemical: polyoxyethylene sorbitan monolaurate (Tween® 20) CAS No.: 9005-64-5

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-31681

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Following information is valid for pure substances.

10 - 60 mL Buffer G3

Chemical: guanidine hydrochloride CAS No.: 50-01-1

LC50<sub>leuciscus idus/96h</sub>: 1759 mg/L

WGK (DE): 1 WGK No.: 0788

Storage class (VCI): 12

Chemical: polyoxyethylene sorbitan monolaurate (Tween® 20) CAS No.: 9005-64-5

WGK (DE): 1 Storage class (VCI): 10-11

## 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

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## **SECTION 13: Disposal considerations**

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

#### 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

### **SECTION 14: Transport information**

No dangerous goods according the transport regulations

#### 14.5 Environmental hazards

not necessary, contains only small quantities of hazardous substances

### 14.6 Special precautions for user

not necessary

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

## **SECTION 15: Regulatory Information**

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

#### 15.2 Chemical safety assessment

not necessary for these small amounts

## **SECTION 16: Other Information**

#### 16.1 List of R, H and P phrases

16.1.1 List of relevant R phrases

R22 Harmful if swallowed. R36 Irritating to eyes.

16.1.2 List of relevant H phrases

H302 Harmful if swallowed. H319 Causes serious eye irritation.

16.1.3 List of relevant P phrases

P264W Wash with water thoroughly after handling. P280sh Wear protective gloves/eye protection.

P301+312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P330 Rinse mouth.

P337+313 If eye irritation persists: Get medical advice/attention.

#### 16.2 Training Advice

Regular safety training.

#### 16.3 Recommended Restriction on Use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

#### 16.4 Further Information

Bioline Reagents Ltd provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

Bioline Reagents Ltd makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly Bioline Reagents Ltd will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

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## 16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated February 2015 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances

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

#### 1.1 **Product identifier**

Product form: Mixture

Product name: 5 - 150 mL Wash Buffer GW1

BIO-52062, BIO-52063, BIO-52064, BIO-52065, BIO-52066 & BIO-52067 Cat. No.:

REACH Registration number(s): see SECTION 3.1/3.2 or

A registration number for the substance(s) does not exist because the annual tonnage does not require registration or

the substance or its use is excluded from registration.

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

#### Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC

0 The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

#### 1.3 Details of the supplier of the safety data sheet

Bioline Reagents Ltd. Humber Road London NW2 6FW United Kingdom

T: +44 (0)20 8830 5300 F: +44 (0)20 8452 2822

E-mail: info.uk@bioline.com

#### 1.4 **Emergency telephone number**

+49 (0) 7611 9240 (Germany) (24 hours, 7 days)

#### **SECTION 2: Hazard identification**

#### 2.1 Classification of the substance or mixture

#### 5 - 150 mL Wash Buffer GW1

Directive 1999/45/EC

Symbols do not need labelling as hazardous

CLP Directive 1272/2008/EC

GHS pictograms





GHS07

Signal word WARNING

Hazard identification Hazard classes/categories H226 Flammable Liquid cat. 3 H302 Acute Tox. 4 oral H319 Eye Irritation cat. 2 H336 STOT SE 3

#### 2.2 Label elements

According 1999/45/EC small amounts of harmful and highly flammable preparations/mixtures have partly/completely exemption from labelling (no symbols F, O, Xn, Xi, N and no R and S phrases are necessary) until 25-125 mL|g.

According CLP (GHS) inner packages must be only labelled with symbol(s) and product identificator (EU 1272/2008 Annex I - 1.5.1.2). Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

The irritant hazard should be eliminated, because of buffer chemicals inside.



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#### 5 - 150 mL Wash Buffer GW1

Directive 1999/45/EC

Symbols:

S 26-39

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

CLP Directive 1272/2008/EC GHS pictograms:





GHS07

Signal word: WARNING

#### 2.3 Other hazards

#### Possible Hazards from physicochemical Properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. Vapour forms explosive mixtures

#### Information pertaining to particular Risks to Human and possible Symptoms

Cause after oral intake, impairments of health when ingested in small quantities. ---

Information pertaining to particular Risks to the Environment

Other Hazards

## **SECTION 3: Composition/Information on Ingredients**

#### 3.1 Substances or 3.2 Mixtures

#### 5 - 150 mL Wash Buffer GW1

CAS No.: 50-01-1 guanidine hydrochloride Chemical:

Concentration: 36 - 50 % Formula: CH<sub>6</sub> CIN<sub>3</sub> Pseudonym: guanidinium chloride

REACH Reg. No.:

REACH Preregistration (for): 05-2114282045-53-0000 (2018)

200-002-3 607-148-00-0 EC No.: Indice No.: MF4300000 MFCD: 00013026 RTECS:

TSCA Inventory: listed

KE No.: KE-18111

acc. 1999/45/EC: R 22-36 acc. CLP (GHS): H302, H319

Chemical: CAS No.: 67-63-0 2-propanol

Concentration: 20 - 50 % Formula: C<sub>3</sub> H<sub>8</sub> O

Pseudonym: isopropanol, IPA, propan-2-ol 01-2119457558-25-xxxx REACH Reg. No.:

200-661-7 EC No.:

Indice No.: 603-117-00-0 RTECS: NT8050000 MFCD: 00011674

TSCA Inventory: listed

KE-29363 KE No.: acc. 1999/45/EC:

acc. CLP (GHS): R 10-36-67 H226, H319, H336

#### 3.3 Remarks

List of R, H and P phrases: see section 16



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### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

#### 4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of Vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free.

#### 4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested.

### 4.2 Most important symptoms and effects, both acute and delayed

Avoid inhalation of dust. ---

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

No additionally recommendations.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

#### 5.2 Special hazards arising from the substance or mixture

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible.

## 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

#### 5.4 Additional Information

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#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.

#### 6.2 Environmental precautions

not necessary

## 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drains.

## 6.4 Reference to other sections

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## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

## 7.2 Conditions for safe storage, including any incompatibilities

The original product package allows a safe storage.

Storage class (VCI): 3 WGK (DE): 1

## 7.2.1 Requirements for Stock Rooms and Containers

Keep original product packages tightly closed during handling and storage.

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## 7.3 Specific end use(s)

Product for analytical use.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

5 - 150 mL Wash Buffer GW1

Chemical: guanidine hydrochloride CAS No.: 50-01-1

NIOSH: not listed OSHA: not listed

Chemical: 2-propanol CAS No.: 67-63-0

DNEL: 500inh mg/m³
DNEL = Derived No-Effect Level (for workers)

TROO COO (PE)

TRGS 900 (DE): 200 ppm / 500 mg/m³ E/e respirable

Short-term exposure factor: 2 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 200 ppm / 500 mg/m³ TRGS 903 (DE): 8/b, U/b 25<sub>Aceton</sub> mg/L

B blood, U urine

NIOSH: TWA 400 ppm / 980 mg/m<sup>3</sup>; ST 500 ppm / 1225 mg/m<sup>3</sup>

NIOSH STEL: 1225 mg/m<sup>3</sup>

OSHA: TWA 400 ppm / 980 mg/m<sup>3</sup>

#### 8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

#### 8.2.1 Respiratory Protection

Only if additional recommendations in test instruction or packing insert.

#### 8.2.2 Hand Protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

### 8.2.3 Eye Protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

#### 8.2.4 Skin Protection

Not necessary.

### 8.2.5 Personal Hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

#### 5 - 150 mL Wash Buffer GW1

Appearance: liquid Color: colourless Odor: alcoholic

pH: 7-8
Flash point: 25 °C
Specific gravity: 1.06 g/cm³

#### 9.2 Other information

#### **Relevant Properties of Substance Group**

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9.2.1

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

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## **SECTION 10: Stability and reactivity**

10.1 Reactivity

No data available

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

No data available. Note: Can form very reactive substances with oxidizing agents.

10.4 Conditions to avoid

Or when indicated in packing insert.

10.5 Incompatible materials

Not necessary.

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

#### 5 - 150 mL Wash Buffer GW1

Chemical: guanidine hydrochloride CAS No.: 50-01-1

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: not listed
Japan PDSCL: not listed Japan ISHL: not listed

 South Korea TCCA:
 not listed

 Korea Exist.Chem.Inventory:
 KE-18111

 LD50orl rat:
 475 mg/kg

 LC50ihl rat:
 5.34h mg/m³

 LD50drm rbt:
 >2000 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chemical: 2-propanol CAS No.: 67-63-0

TSCA Inventory: listed California Proposition 65 List: not listed

ACGIH: 1230 ppm

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system

Symptoms: irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis

Australia NICNAS: Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: PAC yes

Japan PDSCL: Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA:

Korea Exist.Chem.Inventory: KE-29363 LD50<sub>orl rat</sub>: 5045 mg/kg LC\_Loworl hmn: 3570 mg/kg LC50<sub>ihl rat</sub>: 16<sub>4h</sub> g/m³ LD50<sub>drm rbt</sub>: 12.8 g/kg

TRGS 905 (DE). RFC

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Following information is valid for pure substances.

5 - 150 mL Wash Buffer GW1

Chemical: guanidine hydrochloride CAS No.: 50-01-1

LC50<sub>leuciscus idus/96h</sub>: 1759 mg/L

WGK (DE): 1 WGK No.: 0788

Storage class (VCI): 12

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CAS No.: 67-63-0 Chemical: 2-propanol

PNEC(fresh water): 140.9 mg/L

PNEC = Predicted No Effected Concentration

LC50<sub>fish/96h</sub>: 1400 mg/L EC50daphnia/48h: 13.3 g/L IC50<sub>scenedesmus</sub> quadricauda/72h: >1000 mg/L EC5: 1050 mg/L EC10pseudomonas putita/16h: WGK (DE): WGK No.: 0135

Dispersion coefficient<sub>(octanol-water)</sub>: 0.05 Storage class (VCI):

#### 12.2 Persistence and degradability

not necessary

#### 12.3 Bioaccumulative potential

not necessary

#### 12.4 Mobility in soil

not necessary

#### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

no additional data available

### **SECTION 13: Disposal considerations**

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

#### 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

### **SECTION 14: Transport information**

UN 1993 class 3 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1

14.1 UN number: 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (2-propanol mixture)

14.3 Class: 3 14.4 Packing group:

Road transport

Classification code:

Limited Quantity: 5 L Tunnel restriction code: Ε 640F **Excepted Quantity:** Special instructions: Air transport PAX: 355 max. weight PAX: 60 L CAO: 366 max. weight CAO: 220 L Maritime transport

F-E, S-E Storage category: A FmS:

#### 14.5 **Environmental hazards**

not necessary, contains only small quantities of hazardous substances

#### 14.6 Special precautions for user

not necessary

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

## **SECTION 15: Regulatory Information**

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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### 15.2 Chemical safety assessment

not necessary for these small amounts

#### **SECTION 16: Other Information**

### 16.1 List of R, H and P phrases

16.1.1 List of relevant R phrases

R10 Flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

16.1.2 List of relevant H phrases

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

16.1.3 List of relevant P phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P264W Wash with water thoroughly after handling. P280sh Wear protective gloves/eye protection.

P301+312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P330 Rinse mouth.

P337+313 If eye irritation persists: Get medical advice/attention.
P370+378 In case of fire: Use all extinguisher media to extinguish.

P403+235 Store in a well-ventilated place. Keep cool.

### 16.2 Training Advice

Regular safety training.

## 16.3 Recommended Restriction on Use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

#### 16.4 Further Information

Bioline Reagents Ltd provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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### 16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated February 2015

SUVA .CH, Limits in air at work 2009, revised on 01.2009

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 20/01/17 Version: 1.0

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

#### 1.1 Product identifier

Product form: Mixture

Product name: 5 - 50 mL Wash Buffer GW2 (conc.)

BIO-52062, BIO-52063, BIO-52064, BIO-52065, BIO-52066 & BIO-520647 Cat. No .:

REACH Registration number(s): see SECTION 3.1/3.2 or

A registration number for the substance(s) does not exist because the annual tonnage does not require registration or

the substance or its use is excluded from registration.

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

#### Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC

0 The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

#### 1.3 Details of the supplier of the safety data sheet

Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom T: +44 (0)20 8830 5300

F: +44 (0)20 8452 2822 E-mail: info.uk@bioline.com

#### 1.4 **Emergency telephone number**

+49 (0) 7611 9240 (Germany) (24 hours, 7 days)

## **SECTION 2: Hazard identification**

#### 2.1 Classification of the substance or mixture

## 5 - 50 mL Wash Buffer GW2 (conc.)

Directive 1999/45/EC

Symbols do not need labelling as hazardous

CLP Directive 1272/2008/EC

GHS pictograms do not need labelling as hazardous

Signal word

No hazard class

#### 2.2 Label elements

#### 5 - 50 mL Wash Buffer GW2 (conc.)

Directive 1999/45/EC

Symbols:

CLP Directive 1272/2008/EC

GHS pictograms:

do not need labelling as hazardous

Signal word: -



### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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#### 2.3 Other hazards

#### Possible Hazards from physicochemical Properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which in accordance with EC regulations 1272/2008/EC, 1907/2006/EC, 1999/45/EC and German Regulations for Hazardous goods have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit

An individual package has considerably less hazardous potential.

Information pertaining to particular Risks to Human and possible Symptoms

---

Information pertaining to particular Risks to the Environment

---

Other Hazards

---

## **SECTION 3: Composition/Information on Ingredients**

## 3.1 Substances or 3.2 Mixtures

5 - 50 mL Wash Buffer GW2 (conc.)

Chemical: chemicals/mixture < 1%, no declaration necessary CAS No.: -

Concentration: 0,1 - 1 % KE No.: listed

acc. 1999/45/EC: - acc. CLP (GHS): not necessary

#### 3.3 Remarks

- - -

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

4.1.1 After SKIN Contact

Not necessary.

4.1.2 After EYE Contact

Not necessary.

4.1.3 After INHALATION of Vapours

Not necessary.

4.1.4 After ORAL Intake

Not necessary.

## 4.2 Most important symptoms and effects, both acute and delayed

Avoid inhalation of dust. ---

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

No additionally recommendations.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

### 5.2 Special hazards arising from the substance or mixture

None.

## 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

#### 5.4 Additional Information

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### Safety Data Sheet

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Date of issue: 20/01/17 Version: 1.0

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Not necessary.

6.2 Environmental precautions

not necessary

6.3 Methods and material for containment and cleaning up

Clean working area with water. Flush used water into drains.

6.4 Reference to other sections

---

## **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

7.2 Conditions for safe storage, including any incompatibilities

The original product package allows a safe storage.

Storage class (VCI):

WGK (DE):

12

7.2.1 Requirements for Stock Rooms and Containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

## **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

5 - 50 mL Wash Buffer GW2 (conc.)

Chemical: chemicals/mixture < 1%, no declaration necessary

CAS No.: -

8.2 Exposure controls

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

8.2.1 Respiratory Protection

Not necessary.

8.2.2 Hand Protection

Not necessary

8.2.3 Eye Protection

Not necessary.

8.2.4 Skin Protection

Not necessary.

8.2.5 Personal Hygiene

Information not necessary.

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

5 - 50 mL Wash Buffer GW2 (conc.)

Appearance: liquid Color: colourless Odor: odorless pH: 7-8

pH: 7-8
Specific gravity: 1.00 g/cm³

9.2 Other information

**Relevant Properties of Substance Group** 

---

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### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 20/01/17 Version: 1.0

9.2.1

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

## **SECTION 10: Stability and reactivity**

10.1 Reactivity

None

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

Or when indicated in packing insert.

10.5 Incompatible materials

Not necessary.

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

5 - 50 mL Wash Buffer GW2 (conc.)

Chemical: chemicals/mixture < 1%, no declaration necessary

CAS No .: -

Korea Exist.Chem.Inventory: listed

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Following information is valid for pure substances.

5 - 50 mL Wash Buffer GW2 (conc.)

Chemical: chemicals/mixture < 1%, no declaration necessary CAS No.: -

WGK (DE): 1 Storage class (VCI): 12-13

### 12.2 Persistence and degradability

not necessary

#### 12.3 Bioaccumulative potential

not necessary

## 12.4 Mobility in soil

not necessary

#### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

no additional data available

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## **SECTION 13: Disposal considerations**

Not necessary.

#### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains. Normally it is possible to empty small amounts (diluted!) into drains.

### **SECTION 14: Transport information**

14.1 - 14.4 Not necessary

#### 14.5 Environmental hazards

not necessary

#### 14.6 Special precautions for user

not necessary

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

## **SECTION 15: Regulatory Information**

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

## 15.2 Chemical safety assessment

not necessary for these small amounts

## **SECTION 16: Other Information**

## 16.1 List of R, H and P phrases

- 16.1.1 List of relevant R phrases
- 16.1.2 List of relevant H phrases
- 16.1.3 List of relevant P phrases

## 16.2 Training Advice

Regular safety training.

#### 16.3 Recommended Restriction on Use

None

#### 16.4 Further Information

**Bioline Reagents Ltd** provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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### 16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated February 2015

SUVA .CH, Limits in air at work 2009, revised on 01.2009

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

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Date of issue: 20/01/17 Version: 1.0

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

#### 1.1 Product identifier

Product form: Mixture

Product name: 10 - 60 mL Elution Buffer G

Cat. No.: BIO-52062, BIO-52063, BIO-52064, BIO-52065, BIO-52066 & BIO-520647

REACH Registration number(s): see SECTION 3.1/3.2 or

A registration number for the substance(s) does not exist because the annual tonnage does not require registration or

the substance or its use is excluded from registration.

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

#### Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC

0 The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

### 1.3 Details of the supplier of the safety data sheet

Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom T: +44 (0)20 8830 5300

### 1.4 Emergency telephone number

+49 (0) 7611 9240 (Germany) (24 hours, 7 days)

## **SECTION 2: Hazard identification**

## 2.1 Classification of the substance or mixture

## 10 - 60 mL Elution Buffer G

Directive 1999/45/EC

Symbols do not need labelling as hazardous

CLP Directive 1272/2008/EC

GHS pictograms do not need labelling as hazardous

Signal word

No hazard class

### 2.2 Label elements

## 10 - 60 mL Elution Buffer G

Directive 1999/45/EC

Symbols:

Ī

CLP Directive 1272/2008/EC

GHS pictograms:

do not need labelling as hazardous

Signal word: -

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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 20/01/17 Version: 1.0

#### 2.3 Other hazards

#### Possible Hazards from physicochemical Properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which in accordance with EC regulations 1272/2008/EC, 1907/2006/EC, 1999/45/EC and German Regulations for Hazardous goods have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone

An individual package has considerably less hazardous potential.

Information pertaining to particular Risks to Human and possible Symptoms

---

Information pertaining to particular Risks to the Environment

---

Other Hazards

---

## **SECTION 3: Composition/Information on Ingredients**

## 3.1 Substances or 3.2 Mixtures

#### 10 - 60 mL Elution Buffer G

Chemical: chemicals/mixture < 1%, no declaration necessary CAS No.: -

Concentration: 0,1 - 1 %

KE No.: listed

acc. 1999/45/EC: - acc. CLP (GHS): not necessary

#### 3.3 Remarks

. - -

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

4.1.1 After SKIN Contact

Not necessary.

4.1.2 After EYE Contact

Not necessary.

4.1.3 After INHALATION of Vapours

Not necessary.

4.1.4 After ORAL Intake

Not necessary.

### 4.2 Most important symptoms and effects, both acute and delayed

Avoid inhalation of dust. ---

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

No additionally recommendations.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

#### 5.2 Special hazards arising from the substance or mixture

None.

### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

#### 5.4 Additional Information

---

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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 20/01/17 Version: 1.0

#### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Not necessary.

6.2 Environmental precautions

not necessary

6.3 Methods and material for containment and cleaning up

Clean working area with water. Flush used water into drains.

6.4 Reference to other sections

---

## **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

7.2 Conditions for safe storage, including any incompatibilities

The original product package allows a safe storage.

Storage class (VCI): 12 WGK (DE): 1

7.2.1 Requirements for Stock Rooms and Containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

## **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

10 - 60 mL Elution Buffer G

Chemical: chemicals/mixture < 1%, no declaration necessary

CAS No.: -

8.2 Exposure controls

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

8.2.1 Respiratory Protection

Not necessary.

8.2.2 Hand Protection

Not necessary.

8.2.3 Eye Protection

Not necessary.

8.2.4 Skin Protection

Not necessary.

8.2.5 Personal Hygiene

Information not necessary.

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

10 - 60 mL Elution Buffer G

Appearance: liquid Color: colourless Odor: odorless

pH: 8-9
Specific gravity: 1.0 g/cm³

9.2 Other information

**Relevant Properties of Substance Group** 

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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 20/01/17 Version: 1.0

9.2.1

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

## **SECTION 10: Stability and reactivity**

10.1 Reactivity

None

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

Or when indicated in packing insert.

10.5 Incompatible materials

Not necessary.

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

CAS No .: -

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

#### 10 - 60 mL Elution Buffer G

Chemical: chemicals/mixture < 1%, no declaration necessary

Korea Exist.Chem.Inventory: listed

## **SECTION 12: Ecological information**

12.1 Toxicity

Following information is valid for pure substances.

10 - 60 mL Elution Buffer G

Chemical: chemicals/mixture < 1%, no declaration necessary CAS No.: -

WGK (DE): 1 Storage class (VCI): 12-13

## 12.2 Persistence and degradability

not necessary

### 12.3 Bioaccumulative potential

not necessary

#### 12.4 Mobility in soil

not necessary

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

no additional data available

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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 20/01/17 Version: 1.0

## **SECTION 13: Disposal considerations**

Not necessary.

#### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains. Normally it is possible to empty small amounts (diluted!) into drains.

### **SECTION 14: Transport information**

14.1 - 14.4 Not necessary

#### 14.5 Environmental hazards

not necessary

#### 14.6 Special precautions for user

not necessary

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

## **SECTION 15: Regulatory Information**

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

## 15.2 Chemical safety assessment

not necessary for these small amounts

## **SECTION 16: Other Information**

### 16.1 List of R, H and P phrases

- 16.1.1 List of relevant R phrases
- 16.1.2 List of relevant H phrases
- 16.1.3 List of relevant P phrases

## 16.2 Training Advice

Regular safety training.

#### 16.3 Recommended Restriction on Use

None

#### 16.4 Further Information

**Bioline Reagents Ltd** provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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### 16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated February 2015

SUVA .CH, Limits in air at work 2009, revised on 01.2009

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 20/01/17 Version: 1.0

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

#### 1.1 Product identifier

Product form: Mixture

Product name: 1 - 8 mL Proteinase K Buffer PR

Cat. No.: BIO-52062, BIO-52063, BIO-52064, BIO-52065, BIO-52066 & BIO-520647

REACH Registration number(s): see SECTION 3.1/3.2 or

A registration number for the substance(s) does not exist because the annual tonnage does not require registration or

the substance or its use is excluded from registration.

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

#### Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC

0 The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

#### 1.3 Details of the supplier of the safety data sheet

Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom T: +44 (0)20 8830 5300

#### 1.4 Emergency telephone number

+49 (0) 7611 9240 (Germany) (24 hours, 7 days)

### **SECTION 2: Hazard identification**

#### 2.1 Classification of the substance or mixture

#### 1 - 8 mL Proteinase K Buffer PR

Directive 1999/45/EC

Symbols do not need labelling as hazardous

CLP Directive 1272/2008/EC

GHS pictograms do not need labelling as hazardous

Signal word

No hazard class

### 2.2 Label elements

#### 1 - 8 mL Proteinase K Buffer PR

Directive 1999/45/EC

Symbols:

-

CLP Directive 1272/2008/EC

GHS pictograms:

do not need labelling as hazardous

Signal word: -

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## Safety Data Sheet

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Date of issue: 20/01/17 Version: 1.0

#### 2.3 Other hazards

#### Possible Hazards from physicochemical Properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which in accordance with EC regulations 1272/2008/EC, 1907/2006/EC, 1999/45/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit

An individual package has considerably less hazardous potential.

Information pertaining to particular Risks to Human and possible Symptoms

---

Information pertaining to particular Risks to the Environment

---

Other Hazards

---

## **SECTION 3: Composition/Information on Ingredients**

## 3.1 Substances or 3.2 Mixtures

#### 1 - 8 mL Proteinase K Buffer PR

Chemical: glycerole CAS No.: 56-81-5

Concentration: 10 - 50 %Formula:  $C_3 H_8 O_3$ 

Pseudonym: glycerin, 1,2,3-propanetriol REACH Reg. No.: 01-2119471987-18-xxxx

EC No.: 200-289-5

RTECS: MA8050000 MFCD: 00004722

TSCA Inventory: listed (1,2,3-Propanetriol)

KE No.: KE-29297

acc. 1999/45/EC: - acc. CLP (GHS): not necessary

#### 3.3 Remarks

- - -

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

4.1.1 After SKIN Contact

Not necessary.

4.1.2 After EYE Contact

Not necessary.

4.1.3 After INHALATION of Vapours

Not necessary.

4.1.4 After ORAL Intake

Not necessary.

### 4.2 Most important symptoms and effects, both acute and delayed

Avoid inhalation of dust. ---

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

No additionally recommendations.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

### 5.2 Special hazards arising from the substance or mixture

None.

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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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#### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

5.4 **Additional Information** 

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Not necessary.

6.2 **Environmental precautions** 

not necessary

6.3 Methods and material for containment and cleaning up

Clean working area with water. Flush used water into drains.

6.4 Reference to other sections

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

#### 7.2 Conditions for safe storage, including any incompatibilities

The original product package allows a safe storage.

Storage class (VCI): 10 WGK (DE): 0

7.2.1 **Requirements for Stock Rooms and Containers** 

Keep original product packages tightly closed during handling and storage.

#### 7.3 Specific end use(s)

Product for analytical use.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### 1 - 8 mL Proteinase K Buffer PR

Chemical: glycerole

56<sub>inh</sub> mg/m<sup>3</sup> DNEL: DNEL = Derived No-Effect Level (for workers) SUVA(CH) MAK value: 50 e\* mg/m<sup>3</sup>

#### 8.2 **Exposure controls**

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

CAS No.: 56-81-5

8.2.1 **Respiratory Protection** 

Not necessary.

8.2.2 **Hand Protection** 

Not necessary.

8.2.3 **Eye Protection** Not necessary.

8.2.4

**Skin Protection** Not necessary.

8.2.5

Personal Hygiene Information not necessary.



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## **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties 9.1

1 - 8 mL Proteinase K Buffer PR

Appearance: liquid Color: colourless Odor: alcoholic

Specific gravity: 1.11 g/cm<sup>3</sup>

#### 9.2 Other information

**Relevant Properties of Substance Group** 

9.2.1

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

None

#### 10.2 **Chemical stability**

No known instability.

#### 10.3 Possibility of hazardous reactions

None.

#### 10.4 Conditions to avoid

Or when indicated in packing insert.

#### 10.5 Incompatible materials

Not necessary.

#### 10.6 **Hazardous decomposition products**

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

#### 1 - 8 mL Proteinase K Buffer PR

Chemical: glycerole CAS No.: 56-81-5

TSCA Inventory: listed (1,2,3-Propanetriol) Exposure Routes: inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys Target Organs:

Symptoms: irritation eyes, skin, respiratory system; headache, nausea, vomiting; kidney injury

Korea Exist.Chem.Inventory: KE-29297 LD50orl rat: 12.6 g/kg LD50drm rbt: >18.7 g/kg

TRGS 905 (DE): R<sub>F</sub> C

## **SECTION 12: Ecological information**

WGK (DE):

#### 12.1 **Toxicity**

Following information is valid for pure substances.

1 - 8 mL Proteinase K Buffer PR

CAS No.: 56-81-5 Chemical: glycerole

0.885 ma/L

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

LC50fish/96h: >500024h mg/L EC50daphnia/48h:  $>10_{24h} g/L$  $IC50_{scenedes mus\ quadricauda/72h}$  : IC57d > 10 g/L EC10<sub>pseudomonas putita/16h</sub>: EC5: >10 g/L



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Dispersion coefficient<sub>(octanol-water)</sub>: -1.76 Storage class (VCI): 10

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

not necessary

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no additional data available

## **SECTION 13: Disposal considerations**

Not necessary.

#### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains. Normally it is possible to empty small amounts (diluted!) into drains.

## **SECTION 14: Transport information**

14.1 - 14.4 Not necessary

14.5 Environmental hazards

not necessary

14.6 Special precautions for user

not necessary

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

not applicable

## **SECTION 15: Regulatory Information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- 15.2 Chemical safety assessment

not necessary for these small amounts

## **SECTION 16: Other Information**

## 16.1 List of R, H and P phrases

16.1.1 List of relevant R phrases

16.1.2 List of relevant H phrases

16.1.3 List of relevant P phrases

#### 16.2 Training Advice

Regular safety training.

16.3 Recommended Restriction on Use

None

#### 16.4 Further Information

**Bioline Reagents Ltd** provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

particular purpose.

Bioline Reagents Ltd makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the

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product to which the information refers. Accordingly Bioline Reagents Ltd will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

#### 16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated February 2015 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substation 1988).

Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)



## Proteinase K (Iyo)

### Safety Data Sheet

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

#### 1.1 **Product identifier**

Product form: Mixture

Product name: 1-75 mg Proteinase K (Iyo)

Cat. No.: BIO-52062, BIO-52063, BIO-52064, BIO-52065, BIO-52066 & BIO-520647

REACH Registration number(s):

HRegistration number(s): see SECTION 3.1/3.2 or
A registration number for the substance(s) does not exist because the annual tonnage does not require registration or

the substance or its use is excluded from registration.

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

#### Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC

0 The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

#### 1.3 Details of the supplier of the safety data sheet

Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom

T: +44 (0)20 8830 5300 F: +44 (0)20 8452 2822

E-mail: info.uk@bioline.com

#### 1.4 **Emergency telephone number**

+49 (0) 7611 9240 (Germany) (24 hours, 7 days)

#### **SECTION 2: Hazard identification**

#### 2.1 Classification of the substance or mixture

#### 1-75 mg Proteinase K (Iyo)

Directive 1999/45/EC

R 42

Symbols



CLP Directive 1272/2008/EC

GHS pictograms





**GHS08** 

Signal word DANGER

Hazard identification Hazard classes/categories H317 Skin Sensitisation cat. 1A/1B H334 Respiratory Sensitisation cat. 1A/1B

#### 2.2 Label elements

According 1999/45/EC small amounts of harmful and highly flammable preparations/mixtures have partly/completely exemption from labelling (no symbols F, O, Xn, Xi, N and no R and S phrases are necessary) until 25-125 mL|g . This labelling exemption is NOT valid for sensibilizing mixtures.

According CLP (GHS) inner packages must be only labelled with symbol(s) and product identificator (EU 1272/2008 Annex I - 1.5.1.2). Harmful chemicals/mixtures with signal word: WARNING must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances.



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### 1-75 mg Proteinase K (Iyo)

Directive 1999/45/EC Symbols:



Xn

R 42

May cause sensitization by inhalation.

S 22-26-36/37

Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

CLP Directive 1272/2008/EC GHS pictograms:





GHS07

Signal word: DANGER

H317, H334

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261S, P280sh, P302+352, P304+340, P333+313, P342+311, P363

Avoid breathing dust. Wear protective gloves/eye protection. IF ON SKIN: Wash with plenty of water/... IF INHALED: Remove person to fresh air and keep comfortable for breathing. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER/doctor/... Wash contaminated clothing before reuse.

### 2.3 Other hazards

#### Possible Hazards from physicochemical Properties

#### Information pertaining to particular Risks to Human and possible Symptoms

Cause after skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Kit contains small amounts of enzymes, which may cause sensitization by direct and repeated contact.

#### Information pertaining to particular Risks to the Environment

PBT: not applicable vPvB: not applicable

Other Hazards

\_\_\_

## **SECTION 3: Composition/Information on Ingredients**

### 3.1 Substances or 3.2 Mixtures

#### 1-75 mg Proteinase K (Iyo)

Chemical: proteinase K (origin: tritirachium album) CAS No.: 39450-01-6

Concentration: 90 - 100 %

Formula: Enzyme Comm. No. 3.4.21.64, origin: tritirachium album serine

EC No.: 254-457-8 Indice No.: 647-014-00-9 RTECS: - MFCD: 00132129

TSCA Inventory: listed (CAS 102925-54-2)

KE No.: not listed

acc. 1999/45/EC: R 36/37/38-42 acc. CLP (GHS): H317, H334

#### 3.3 Remarks

List of R, H and P phrases: see section 16

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#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Take to a doctor, in a raised position if there are breathing difficulties.

#### 4.1.1 After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of Vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function.

#### 4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested.

#### 4.2 Most important symptoms and effects, both acute and delayed

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid inhalation of dust. ---

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

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. Inform patient respectively further measures and the possibility of long-term damages.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

#### 5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapour-air mixtures possible.

#### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

## 5.4 Additional Information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances. ---

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

#### 6.2 Environmental precautions

not necessary

### 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

Collect small amounts of leaked liquid and flush with water into drains.

#### 6.4 Reference to other sections

see information in section 5.4 ---

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## Proteinase K (Iyo)

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## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

#### 7.2 Conditions for safe storage, including any incompatibilities

The original product package allows a safe storage.

Storage class (VCI): WGK (DE):

#### 7.2.1 **Requirements for Stock Rooms and Containers**

Keep original product packages tightly closed during handling and storage.

#### 7.3 Specific end use(s)

Product for analytical use.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### 1-75 mg Proteinase K (Iyo)

proteinase K (origin: tritirachium album)

CAS No.: 39450-01-6 SUVA(CH) MAK value: 0,0000615min mg/m<sup>3</sup>

#### 8.2 **Exposure controls**

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

#### 8.2.1 **Respiratory Protection**

Only if additional recommendations in test instruction or packing insert. Use for open access of these substances for example a protection filter, class A/AX.

#### 8.2.2 **Hand Protection**

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

#### 8.2.3

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

#### 8.2.4 **Skin Protection**

Recommended to avoid contamination with these hazards.

## 8.2.5

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

1-75 mg Proteinase K (Iyo)

Appearance: solid (lyoph.) Color: slightly grey Odor: odorless

#### 9.2 Other information

## Relevant Properties of Substance Group

9.2.1

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available



## Proteinase K (Ivo)

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#### 10.2 Chemical stability

No known instability.

#### 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Not necessary. Only if on label. Or when indicated in packing insert.

#### 10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

#### 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

#### 1-75 mg Proteinase K (Iyo)

Chemical: proteinase K (origin: tritirachium album) CAS No.: 39450-01-6

TSCA Inventory: listed (CAS 102925-54-2)

Japan CSCL/PRTR: not listed Korea Exist.Chem.Inventory: not listed

Acute Effects: Cause after skin contact, impairments of health when ingested in small quantities.

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Following information is valid for pure substances.

#### 1-75 mg Proteinase K (Iyo)

Chemical: proteinase K (origin: tritirachium album) CAS No.: 39450-01-6

WGK (DE): 1 Storage class (VCI): 13

#### 12.2 Persistence and degradability

not necessary

#### 12.3 Bioaccumulative potential

not necessary

#### 12.4 Mobility in soil

not necessary

## 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

no additional data available

## **SECTION 13: Disposal considerations**

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

#### 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

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## **SECTION 14: Transport information**

14.1 - 14.4 Not necessary

#### 14.5 Environmental hazards

not necessary, contains only small quantities of hazardous substances

### 14.6 Special precautions for user

not necessary

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

### **SECTION 15: Regulatory Information**

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

#### 15.2 Chemical safety assessment

not necessary for these small amounts

### **SECTION 16: Other Information**

#### 16.1 List of R, H and P phrases

#### 16.1.1 List of relevant R phrases

R36/37/38 Irritating to eyes, respiratory system and skin.
R42 May cause sensitization by inhalation.

#### 16.1.2 List of relevant H phrases

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## 16.1.3 List of relevant P phrases

P261S Avoid breathing dust.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280sh Wear protective gloves/eye protection.
P302+352 IF ON SKIN: Wash with plenty of water/...

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

P363 Wash contaminated clothing before reuse.

### 16.2 Training Advice

Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

### 16.3 Recommended Restriction on Use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!

Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or DE §§ 4 und 5 MuSchRiV)! An individual package of this product or test kit has a moderate hazardous potential.

#### 16.4 Further Information

Bioline Reagents Ltd provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

Bioline Reagents Ltd makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly Bioline Reagents Ltd will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

## 16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated February 2015

SUVA .CH, Limits in air at work 2009, revised on 01.2009

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TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

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