# Safety data sheet

*This safety data sheet complies with the requirements of Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006*

# CALPROTECTIN

## 1 SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

### 1.1 Product identifier

Product: Calprotectin

Code : CACOL (CACOL-B00, CACOL-H00, CACOL-L00, CACOL-H00/MOD, CACOL-L00/MOD, CACOL-H00/ADV, CACOL-L00/ADV, CACOL-C00/ADV, CACOL-B00/ALI, CACOL-H00/ALI, CACOL-L00/ALI, CACOL-H00/ARC, CACOL-L00/ARC, CACOL-B00/ATE, CACOL-H00/ATE, CACOL-L00/ATE, CACOL-H00/AU, CACOL-L00/AU, CACOL-B00/COB, CACOL-H00/COB, CACOL-L00/COB, CACOL-C00/COB, CACOL-H00/CDC, CACOL-B00/UDA, CACOL-H00/UDA, CACOL-L00/UDA)

System: ready-made reagents consisting of R1 and R2
R1 =>TRBUF-XXX - TRBUF Buffer
R2 => CACOL-XXX - Human anti-calprotectin anti-serum

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

Laboratory reagents for in vitro diagnostics

### 1.3 Information on the supplier of the safety data sheet

Company: DiAgam S.A. – Place of business
Rue du Parc industriel 40
B- 7822 Ghislenghien
Belgium
Telephone: 32.68.55.14.82
Fax: 32.68.56.89.40
Contact: Aurélien Morleghem
E-mail: mail@diagam.com

### 1.4 Emergency contact number

Anti-poison centre (Belgium) : + 32 70 245 245

## 2 SECTION 2: HAZARD ASSESSMENT

### 2.1 Classification of the mixture

This mixture is not classified as dangerous under Regulation (EC) No 1272/2008.

### 2.2 Labelling elements

The product is not required to be identified in accordance with Regulation (EC) No 1272/2008.
The usual precautions should be observed when handling chemicals.

### 2.3 Other hazards

**PBT:** Not applicable
**vPvB:** Not applicable
None



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40

## 3 SECTION 3: COMPOSITION / INFORMATION ON COMPONENTS

### 3.1 Substances

Does not apply

### 3.2 Mixtures

#### 3.2.1 Reagent R1

Hazardous substances but present at a concentration lower than that meeting the criteria for classification of the mixture in accordance with Regulation (EC) No 1272/2008.

| Components | Index-No | CE-No | CAS-No | REACH -No | Concentration | Classification | |
|---|---|---|---|---|---|---|---|
| **Azoture de sodium** | 011-004-00-7 | 247-852-1 | 26628-22-8 | - | 0,09 | Acute Tox. 2;<br>Acute Tox. 1;<br>STOT RE 2;<br>Aquatic Acute 1;<br>Aquatic Chronic 1. | H300<br>H310<br>H373<br>H400<br>H410 |

For the full text of abbreviations, see section 16.

#### 3.2.2 Reagent R2

| Component | No.-CAS | Type of Exposition Value | Controls Parameters | Base |
|---|---|---|---|---|
| **Boric acid** | 10043-35-3 | VLE 8 hr | 2 mg/m3 | Occupational exposure limit values |
| | | VLE 15 min | 6 mg/m3 | Occupational exposure limit values |

## 4 SECTION 4: FIRST AID

### 4.1 Description of first aid

**General advice:** Show this safety card to the doctor during the consultation.

**Inhalation:** Expose to fresh air. In case of problems, consult a doctor.

**Contact with skin:** Wash skin thoroughly with water or shower. If skin irritations or allergic reactions occur, seek medical attention.

**Contact with eyes:** Rinse thoroughly with water for at least 15 minutes.
Remove contact lenses.
If symptoms persist, consult a doctor.



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

**Ingestion:** Rinse your mouth immediately and take deep breaths.
Do not give milk or alcoholic beverages.
If symptoms persist, consult a doctor.

### 4.2 Main symptoms and effects, both acute and delayed

Unknown.

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

All first aid or treatment should be given as directed by a doctor.

## 5 SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinction measures

**Appropriate measures:** No restrictions. Use appropriate extinction methods depending on the environment.

**Appropriate measures:** N/A.

### 5.2 Specific hazards arising from the mixture

No decomposition products or gases harmful to health expected in large quantities.

### 5.3 Advice for firefighters

Wear self-contained protective fire-fighting apparatus if necessary.

## 6 SECTION 6: MEASURES TO TAKE IN CASE OF ACCIDENTAL SPILLAGE

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

Provide adequate ventilation. See point 8.

### 6.2 Environmental precautions

The disposal of waste must be carried out in accordance with regulations in force. Potentially infectious material must be sterilised or incinerated.

### 6.3 Methods and materials for containment and cleaning

**For cleaning:** Wipe with absorbent material (e.g. cloth, paper towels). Clean with water.

**For containment:** Put in a closed container suitable for disposal.

**Other information:** N/A.

### 6.4 Reference to other sections

For the protection of workers and disposal, refer to No. 8 and 13.



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

## 7 SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions to take for safe handling

**Protective measures:**
Wear disposable gloves when handling reagents and test samples. Wash your hands thoroughly afterwards.
Do not smoke, drink or eat in hazardous areas.

**Protective measures intended to prevent fires:**
Normal fire prevention measures

**Measures intended to prevent the production of particulates and dust:**
Put in a closed container suitable for disposal.

**Other information:**
Wear disposable gloves when handling reagents and test samples. Wash your hands thoroughly afterwards.

### 7.2 Conditions required for safe storage, taking into account any incompatibilities

| | |
|---|---|
| **Technical measure and storage conditions:** | Store at 2-25°C (R1) and 2-8°C (R2) in the original packaging. |
| **Packaging materials:** | Original packaging. |
| **Requirement concerning storage premises:** | Keep away from heat and sources of ignition |
| **Storage class:** | Non-combustible liquid. |
| **Incompatibilities:** | No restrictions. |

### 7.3 Specific end use

Laboratory chemicals



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

## 8 SECTION 8: EXPOSURE CONTROL / INDIVIDUAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Reagent R1

| Component | CAS-No | Value | Control parameters | Base |
|---|---|---|---|---|
| **Sodium azide** | 26628-22-8 | TWA | 0.1 mg/m3 | Average exposure limit rectified in relation to time |
| | | Identifies the possibility of significant absorption through the skin Indicative | | |
| | | STEL | 0.3 mg/m3 | Short-term exposure limit |
| | | Identifies the possibility of significant absorption through the skin Indicative | | |
| | | TGG 8 hr | 0.1 mg/m3 | Professional exposure values |
| | | TGG 15 min | 0.3 mg/m3 | Professional exposure values |

#### 8.1.2 Reagent R2

N/A.

### 8.2 Exposure controls

**Appropriate technical controls:** Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the working day.

**Protecting the eyes / face:** Wear safety goggles.

**Protecting the skin:** Wear an apron.

**Protecting the hands:** Wear disposable gloves when handling reagents and test samples. Wash your hands thoroughly afterwards. Change contaminated clothing.

**Protecting skin other than the hands:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the workplace.

**Respiratory protection:** No personal respiratory protective equipment is normally required.

**Exposure controls related to environmental protection:**

Avoid further spills or leaks, if this is possible safely. Do not let product enter drains. All littering must be avoided in the environment.



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

## 9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Essential information on physical and chemical properties

**Reagent R1**

| | |
|---|---|
| Appearance: | colourless liquid |
| Smell: | odourless |
| Odour threshold: | data not available |
| pH: | +/- 8.0 (20°C) |
| Melting point/freezing point: | data not available |
| Initial boiling point and boiling range: | data not available |
| Flash point: | data not available |
| Evaporation rate: | data not available |
| Flammability (solid, gas): | data not available |
| Upper/lower flammability limits or Explosivity limits: | data not available |
| Vapour pressure: | data not available |
| Vapour density: | data not available |
| Relative density: | data not available |
| Solubility: | Water soluble: |
| Partition coefficient: n-octanol/water: | data not available |
| Auto-ignition temperature: | data not available |
| Decomposition temperature: | data not available |
| Viscosity: | data not available |
| Explosive properties: | data not available |
| Oxidising properties: | data not available |

**Reagent R2**

| | |
|---|---|
| Appearance: | red liquid |
| Smell: | odourless |
| Odour threshold: | data not available |
| pH: | +/- 9.00 (20°C) |
| Melting point/freezing point: | data not available |
| Initial boiling point and boiling range: | data not available |
| Flash point: | data not available |
| Evaporation rate: | data not available |
| Flammability (solid, gas): | data not available |
| Upper/lower flammability limits or Explosivity limits: | data not available |
| Vapour pressure: | data not available |
| Vapour density: | data not available |
| Relative density: | data not available |
| Solubility: | Water soluble: |
| Partition coefficient: n-octanol/water: | data not available |
| Auto-ignition temperature: | data not available |
| Decomposition temperature: | data not available |
| Viscosity: | data not available |
| Explosive properties: | data not available |
| Oxidising properties: | data not available |

### 9.2 Other information

**Reagent R1**

| | |
|---|---|
| Flammability | Not flammable |
| Self-ignition | N/A. |

**Reagent R2**

| | |
|---|---|
| Flammability | Not flammable |
| Self-ignition | N/A. |



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

## 10 SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No decomposition if correctly used.

### 10.2 Chemical stability

Stable under the recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None under the specified conditions of use.
This product contains sodium azide: Sodium azide becomes explosive on contact with heavy metals such as copper or lead.

### 10.4 Conditions to avoid

Changing the storage temperature (except transport).

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

## 11 SECTION 11: TOXICOLOGICAL INFORMATION - INFORMATION ON TOXICOLOGICAL EFFECTS

### 11.1 Reagent R1

**Component: SODIUM AZIDE**

**Acute toxicity**
DL50 Oral - Rat - > 2,000 mg/kg.

**Skin corrosion/skin irritation**
Skin - Rabbit
Result: No irritation of the skin.
(OECD guideline 404.)

**Serious eye damage/eye irritation**
Skin - Rabbit
Result: No irritation of the eyes.
(OECD guideline 405.)

**Respiratory or skin sensitisation**
Data not available.

**Germ cell mutagenicity**
Data not available.

**Carcinogenicity**
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or recognised as carcinogenic for humans by IARC.

**Toxicity for reproduction**
Data not available.

**Specific target organ toxicity - single exposure**
Data not available.

**Specific target organ toxicity - repeated exposure**
Data not available.

**Aspiration hazard**
Data not available.

**Additional information**
RTECS: AH4410000
To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

## 11.2 Reagent R2

**Component: BORIC ACID**

**acute toxicity**
LD50 Oral - Rat - 2.660 mg / kg

**Skin corrosion / irritation**
Data not available

**Serious eye damage / eye irritation**
Data not available

**Respiratory or skin sensitization**
Data not available

**Germ cell mutagenicity**
Data not available

**carcinogenicity**
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**
fetotoxicity

**Toxic suspected for reproduction for humans**
May harm the fetus.

**Specific target organ toxicity - single exposure**
Data not available

**Specific target organ toxicity - repeated exposure**
Data not available

**Aspiration hazard**
Data not available

**Additional information**
RTECS: ED4550000
Boric acid toxicity in humans: Ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps and erythematous lesions of the skin and mucous membranes. Other symptoms include circulatory injury, tachycardia, cyanosis, delirium, convulsions and coma. It has been reported that amounts of less than 5 grams in infants and 5 to 20 grams in adults have resulted in death. To our knowledge, the chemical, physical and toxicological properties have not been fully studied.
Liver - Irregularities - Based on the effect observed in humans.



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

## 12 SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Reagent R1

#### 12.1.1 Toxicity

**Component: SODIUM AZIDE**

**Toxicity for fish:**
mortality CL50 - Pimephales promelas (Fathead minnow) - 5.46 mg/l - 96 h
(OECD guideline 203.)
**Toxicity for algae:**
CE50 statistic test - Pseudokirchneriella subcapitata - 0.35 mg/l - 96 h.
(OECD guideline 201.)

#### 12.1.2 Persistence and degradability

Result: - Readily biodegradable.
Comments: Data not available.
Chemical Oxygen Demand (COD) 590 mg/g.

#### 12.1.3 Bioaccumulative potential

Data not available.

#### 12.1.4 Mobility in soil

Data not available.

#### 12.1.5 Results of PBT and vPvB assessments

This substance/mixture contains no ingredient considered persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or more.

#### 12.1.6 Other adverse effects

Very harmful to aquatic life, causes long-term adverse effects.



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

### 12.2 Reagent R2

**Component: Boric Acid**

#### 12.2.1 Toxicity

mortality LC50 - Leuciscus idus melanotus - 440 mg / l - 48 h (OECD guideline 203)
Toxicity to daphnia and other aquatic invertebrates
Static test - Daphnia magna (Great Daphnia) - 1.535 mg / l - 24 h

#### 12.2.2 Persistence and degradability

N/A.

#### 12.2.3 Bioaccumulative potential

N/A.

#### 12.2.4 Mobility in soil

N/A.

#### 12.2.5 Results of PBT and vPvB assessments

This substance / mixture contains no ingredient considered persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or greater.

#### 12.2.6 Other adverse effects

N/A.

## 13 SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste processing methods

Chemical waste should be systematically treated as special waste.
This must be disposed of in accordance with the anti-pollution laws of the country concerned. To ensure compliance, we recommend contacting (local) authorities and / or a licensed waste disposal company.



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

## 14 SECTION 14: INFORMATION CONCERNING TRANSPORT

### 14.1 UN number

Not registered as dangerous products.

### 14.2 United Nations shipping name

Not registered as dangerous products.

### 14.3 Hazard class for transport

Not registered as dangerous products.

### 14.4 Packaging group

Not registered as dangerous products.

### 14.5 Dangers for the environment

Not registered as dangerous products.

### 14.6 Specific precautions to be taken by the user

Not registered as dangerous products.

### 14.7 Transport in bulk in accordance with Annex II of MARPOL 73/78 and the IBC Code

Not registered as dangerous products.

## 15 SECTION 15: REGULATORY INFORMATION

### 15.1 Safety regulations/legislation specific to health, safety, and the environment

The product is not required to be identified in accordance with Regulation (EC) No 1272/2008.
The usual precautions should be observed when handling chemicals.

### 15.2 Chemical safety assessment

No chemical safety assessment required.



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**

## 16 SECTION 16: OTHER INFORMATION

*Change to the safety data sheet since the latest version:*
*Change to the safety data sheet to refer to the adequacy of the safety data sheet in relation to Regulation (EC) No 1272/2008.*

*No change in hazards.*

**H codes and abbreviations mentioned in section 3**

| | |
|---|---|
| Acute tox. | Acute toxicity |
| Aquatic acute | Acute toxicity for the aquatic environment |
| Aquatic chronic | Chronic toxicity for the aquatic environment |
| EUH032 | When in contact with an acid, gives off a very toxic gas |
| Eye dam. | Serious eye damage/eye irritation |
| H300 | Fatal if ingested |
| H300 + H310 | Fatal if ingested or through skin contact |
| H302 | Harmful if ingested |
| H310 | Fatal through skin contact |
| H315 | Causes skin irritation |
| H318 | Causes serious skin damage. |
| H332 | Harmful if inhaled. |
| H373 | May cause damage to organs through prolonged or repeated exposure by inhalation. |
| H400 | Very harmful to aquatic life |
| H410 | Very harmful to aquatic life, causes long-term adverse effects. |
| H411 | Very harmful to aquatic life, causes long-term adverse effects. |
| H412 | Harmful to aquatic life, causes long-term adverse effects. |
| N | Dangerous for the environment |
| Skin irrit. | Skin corrosion/skin irritation |
| STOT RE | Specific target organ toxicity - Repeated exposure |
| T+ | Very toxic |
| Xn | Harmful |

This information is based on our current knowledge. The purpose of this safety data sheet is to describe the products according to their safety requirements but are provided without warranty of any kind. The above information is not exhaustive and should be used only as a guide. DiAgam is not responsible for any damage resulting from the handling or use of the product.
The recipient of this product is responsible for compliance with all applicable laws and regulations.



DiAgam Avenue Louis Lepoutre 70 – 1050 BRUSSELS Belgium mail@diagam.com **Tel: +32 (0) 68 55 14 82 / Fax: +32 (0) 68 56 89 40**