

# Safety data sheet

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

## CYSTATIN C

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

#### 1.1 Product identifier

Product: Cystatin C

Code : CYCOL (CYCOL-B00, CYCOL-B00/ARC, CYCOL-B00/AU, CYCOL-B00/ATE, CYCOL-B00/ALI, CYCOL-B00/COB, CYCOL-B00/UDA, CYCOL-H00, CYCOL-H00/ARC, CYCOL-H00/AU, CYCOL-H00/ALI, CYCOL-H00/ATE, CYCOL-H00/COB, CYCOLH00/UDA, CYCOL-L00, CYCOL-L00/ARC, CYCOL-L00/AU, CYCOL-L00/COB, CYCOL-B00/ADV, CYCOL-H00/ADV, CYCOL-L00/ALI)

System: ready-made reagents consisting of R1 and R2  
R1 => TRBUF-XXX - Tris Buffer  
R2 => CYCOL-XXX - Human cystatin C gold reagent

#### 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](mailto: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

# Safety data sheet

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

## 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	
Triton™ X-100	-	-	9002-93-1	-	1,07	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; Aquatic Acute: 10;	H302 H315 H318 H400 H411
Azoture de sodium	011-004-00-7	247-852-1	26628-22-8	-	0,09	Acute Tox. 2; Acute Tox. 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1.	H300 H310 H373 H400 H410

For the full text of abbreviations, see section 16.

#### 3.2.2 Reagent R2

Component	Index-No	CE-No	CAS-No	REACH-No	Concentration - %w/w	Classification	
Barbitale de sodium	-	205-613-9	144-02-5	-	0,41	Acute Tox. 4; Xn,	H302

## 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.

# Safety data sheet

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

**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.



# Safety data sheet

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## 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



# Safety data sheet

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## 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/m <sup>3</sup>	Average exposure limit rectified in relation to time
		Identifies the possibility of significant absorption through the skin Indicative		
		STEL	0.3 mg/m <sup>3</sup>	Short-term exposure limit
		Identifies the possibility of significant absorption through the skin Indicative		
		TGG 8 hr	0.1 mg/m <sup>3</sup>	Professional exposure values
		TGG 15 min	0.3 mg/m <sup>3</sup>	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.

# Safety data sheet

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

## 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.

# Safety data sheet

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## **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.

# Safety data sheet

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

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

### **11.1 Reagent R1**

**Component: TRITON X 100**

#### **Acute toxicity**

DL50 Dermal - Rabbit - > 3,000 mg/kg

#### **Skin corrosion/skin irritation**

Data not available.

#### **Serious eye damage/eye irritation**

Data not available.

#### **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: data not available.

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.



# Safety data sheet

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## **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.

## Safety data sheet

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

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### 11.2 Reagent R2

#### **Component: Sodium barbital**

##### **Acute toxicity**

DL50 Oral - Rat - 600 - 600 mg/kg

DL50 Intraperitoneal - rabbit - 250 mg/kg

##### **Skin corrosion/skin irritation**

data not available

##### **Serious eye damage/eye irritation**

data not available

##### **Respiratory or skin sensitisation**

##### **Germ cell mutagenicity**

##### **Carcinogenicity**

Carcinogenicity - rat – Oral

Tumorigenic: Neoplastic according to RTECS Kidney, Ureter, Bladder criteria: Kidney tumours

Carcinogenicity - rat – Oral

Tumorigenic: Tumorigenic according to RTECS Kidney, Ureter, Bladder criteria: Kidney tumours

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**

Reproductive toxicity - rat – Intraperitoneal

Consequences on fertility: Other fertility measures

Reproductive toxicity - rat - Subcutaneous.

Consequences on fertility: Post-implant mortality (e.g. implants that are dead and/or resorbed by the total number of implants). Fertility consequences: litter size (e.g. foetus per litter, size before birth). Implications for the embryo or the foetus: Fetotoxicity (except death, e.g. foetal rickets)

Reproductive toxicity - rat - Subcutaneous.

Maternal effects: Ovaries, fallopian tubes.

Reproductive toxicity - rat - Subcutaneous.

Consequences on paternity: Prostate, seminal vesicle, Cowper's gland, accessory glands.

Reproductive toxicity - rat - not reported.

Consequences on new-born. Behavioural effect.

Developmental toxicity - mouse - Intraperitoneal.

# Safety data sheet

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**Specific development malformations.** Central nervous system malformations.

Development specifics: Skeletal muscle system.

Developmental toxicity - mouse - Intraperitoneal.

Specific development malformations. Cranofacial (especially the nose and tongue).

**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**

Acute symptoms of overexposure include: sedation, hypnosis. Any exposure to large amounts may cause: coma. Any prolonged or repeated exposure may cause: addiction.

# Safety data sheet

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

## 12 SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Reagent R1

#### 12.1.1 Toxicity

##### Component: TRITON X 100

##### Toxicity for fish:

CL50 - Pimephales promelas (Fathead minnow) - 440 mg/l - 96 h

##### Toxicity to daphnia and other aquatic invertebrates:

Data not available.

##### Toxicity for bacteria:

Data not available.

##### 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.

## Safety data sheet

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

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### 12.2 Reagent R2

#### Component: Sodium Barbital

#### 12.2.1 Toxicity

Data not available.

#### 12.2.2 Persistence and degradability

Data not available.

#### 12.2.3 Bioaccumulative potential

Data not available.

#### 12.2.4 Mobility in soil

Data not available.

#### 12.2.5 Results of PBT and vPvB assessments

The PBT / vPvB assessment is not available because the chemical safety assessment is not required / not conducted.

#### 12.2.6 Other adverse effects

Data not available.

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## 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.

# Safety data sheet

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

## 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.

Substances of very high concern (SVHC) This product does contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 59 above the respective regulatory concentration limit of > 0.1 % (w/w). Contains: Octylphenol polyethoxyethanol

This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006.

Listed substance / Sunset Date: Octylphenol polyethoxyethanol / 04.01.2021

### 15.2 Chemical safety assessment

No chemical safety assessment required.

# Safety data sheet

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

## 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.
H361	Suspected of damaging fertility or the unborn child
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.