Current version : 1.0.1. issued: 10.12.2015

Trade name: CyStain® DNA 2 step - Buffer Reagent

Product no.: 05-5005 C

Replaced version: 1.0.0. issued: 22.10.2014

Region: GB

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

#### 1.1 **Product identifier**

Trade name

## CyStain® DNA 2 step - Buffer Reagent

Identification numbers CAS no. EC no.

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

5949-29-1 201-069-1

Relevant identified uses of the substance or mixture laboratory chemicals

Uses advised against No data available.

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

### Address

Sysmex Partec GmbH Am Flugplatz 13 02828 Görlitz Telephone no. +49 3581 8746-0 +49 3581 8746-70 Fax no. e-mail

info@sysmex-partec.com

## Information provided by / telephone

Regulatory Affairs, Tel. +49 3581 8746-0

Advice on Safety Data Sheet sdb\_info@umco.de

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

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP) Eye Irrit. 2; H319

#### 2.2 Label elements

## Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

**Product identifier** 5949-29-1 (citric-acid-monohydrate)

Hazard pictograms



Warning Hazard statements H319

Causes serious eye irritation.

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## Precautionary statements

If medical advice is needed, have product container or label at hand. Wear protective gloves/eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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#### P337+P313 2.3 Other hazards

P101 P280

PBT assessment No data available. vPvB assessment No data available.

## SECTION 3: Composition/information on ingredients

#### 3.1 Substances

### Chemical characterization

Substance name	citric-acid-monohydrate
Formula	C6H8O7
Molecular weight	210.1
Identification numbers	
CAS no.	5949-29-1
	0949-29-1

#### 3.2 **Mixtures**

Not applicable. The product is not a mixture.

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

#### 4.1 Description of first aid measures

### **General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

### After skin contact

Wash off immediately with soap and water.

### After eye contact

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

### After ingestion

Call a doctor immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

#### Most important symptoms and effects, both acute and delayed 4.2 No data available.

#### 4.3 Indication of any immediate medical attention and special treatment needed No data available.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

### Suitable extinguishing media

Foam; Extinguishing powder; Carbon dioxide; Water spray jet Unsuitable extinguishing media High power water jet

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

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO)



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## 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

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

## 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel Refer to protective measures listed in sections 7 and 8.

#### For emergency responders

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

### 6.2 Environmental precautions

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

**6.3** Methods and material for containment and cleaning up Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations".

## 6.4 Reference to other sections

No data available.

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

## 7.1 Precautions for safe handling

## Advice on safe handling

Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. Wash hands and skin before breaks and after work. Do not inhale dust. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately.

### Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Dust can form an explosive mixture with air.

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

### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage.

## Advice on storage assembly

Do not store together with: Oxidizing agents; Acids; Bases

### 7.3 Specific end use(s)

No data available.

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

### 8.1 Control parameters

No parameters available for monitoring.

## 8.2 Exposure controls

#### Appropriate engineering controls No data available.

## Personal protective equipment

## **Respiratory protection**

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

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## Eye / face protection

Safety glasses with side protection shield (EN 166)

## Hand protection

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

Natural rubber, NR

Appropriate Material

Other

Normal chemical work clothing.

### **Environmental exposure controls**

No data available.

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

## 9.1 Information on basic physical and chemical properties

Form/Colour					
crystalline					
white					
Odour					
odourless					
ododiless					
Odour threshold					
No data available					
pH value					
Value			1.8		
Reference temperature			25	°C	
Concentration			5	g/l	
				5	
Boiling point / boiling range					
No data available					
Melting point / melting range					
Value		135	- 152	°C	
Decomposition point / decomposition range			470	00	
Value	>		170	°C	
Flash point					
No data available					
Ignition temperature					
Value			345	°C	
Vuluo			0-0	0	

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Auto-ignition temperature No data available					
Oxidising properties					
No data available					
Explosive properties					
No data available					
Flammability (solid, gas) No data available					
	-				
Lower flammability or explosive limi No data available	ts				
Upper flammability or explosive limi	s				
No data available					
Vapour pressure					
No data available					
Vapour density					
No data available					
Evaporation rate No data available					
Relative density					
No data available					
Density					
Value			1.54	g/cm <sup>3</sup>	
Reference temperature			20	°C	
Bulk density Value		550	- 950	kg/m³	
Reference temperature		550	- 930 20	°C	
Solubility in water					
Value			675	g/l	
Reference temperature			25	°C	
Solubility(ies) No data available					
Partition coefficient: n-octanol/water No data available					
Viscosity					
No data available					

## 9.2 Other information

Other information No data available.

## SECTION 10: Stability and reactivity

## 10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

## 10.2 Chemical stability

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

## 10.3 Possibility of hazardous reactions

None, if handled according to order.

## 10.4 Conditions to avoid

None, if handled according to intended use.



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## 10.5 Incompatible materials

Oxidizing agents; strong acids; strong bases

## 10.6 Hazardous decomposition products

None, if handled according to intended use.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Acute oral toxicity						
No Substance name		CAS no.		EC no.		
1 citric-acid-monohydrate		5949-29-1		201-069-1		
LD50			3000	mg/kg bodyweight		
Species	rat					
Source	Supplier					
Acute dermal toxicity						
No data available						
Acute inhalational toxicity						
No data available						
Skin corrosion/irritation						
No Substance name		CAS no.		EC no.		
1 citric-acid-monohydrate		5949-29-1		201-069-1		
Source	Supplier					
Evaluation	non-irritant					
Serious eye damage/irritation						
No Substance name		CAS no.		EC no.		
1 citric-acid-monohydrate		5949-29-1		201-069-1		
Source	Supplier					
Evaluation	irritant					
Respiratory or skin sensitisation						
No Substance name		CAS no.		EC no.		
1 citric-acid-monohydrate		5949-29-1		201-069-1		
Route of exposure	Skin					
Source	Supplier					
Evaluation	non-sensitiz	ing				
Germ cell mutagenicity						
No data available						
Reproduction toxicity No data available						
Carcinogenicity						
No data available						
STOT-single exposure						
No data available						
STOT-repeated exposure						
No data available						
Aspiration hazard						
No data available						
Delayed and immediate effects as well as ch		rom short and	long-term ex	kposure		
Inhalation of dusts may irritate the respiratory tract						

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## SECTION 12: Ecological information

## 12.1 Toxicity

Toxicity to fish (acute)
No data available
Toxicity to fish (chronic)
No data available
Texicity to Dephysic (courte)
Toxicity to Daphnia (acute)
No data available
Toxicity to Daphnia (chronic)
No data available
Toxicity to algae (acute)
No data available
Toxicity to algae (chronic)
No data available
Bacteria toxicity
No data available

## 12.2 Persistence and degradability

Bioc	legradability		
No	Substance name	CAS no.	EC no.
1	citric-acid-monohydrate	5949-29-1	201-069-1
Туре	)	aerobic biodegradation	
Valu	e	98	3 %
Dura	ation	2	day(s)
Sour	се	Supplier	

#### **12.3 Bioaccumulative potential** No data available.

No data avallad

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment			
PBT assessment	No data available.		
vPvB assessment	No data available.		

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

Other information Do not discharge product unmonitored into the environment.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

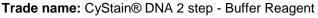
## Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.



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## **SECTION 14: Transport information**

**14.1 Transport ADR/RID/ADN** The product is not subject to ADR/RID/ADN regulations.

#### **14.2 Transport IMDG** The product is not subject to IMDG regulations.

- **14.3 Transport ICAO-TI / IATA** The product is not subject to ICAO-TI / IATA regulations.
- **14.4 Other information** No data available.
- **14.5** Environmental hazards Information on environmental hazards, if relevant, please see 14.1 - 14.3.
- **14.6** Special precautions for user No data available.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not relevant

## **SECTION 15: Regulatory information**

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

### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

In accordance with the Reach regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

REACH candidate list of substances of very high concern (SVHC) for authorisation

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES The substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances This substance is not subject to Part I or 2 of Annex I

## 15.2 Chemical safety assessment

No data available.

## **SECTION 16: Other information**

Sources of key data used to compile the data sheet: Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case. EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU National Threshold Limit Values of the corresponding countries as amended in each case. Transport regulations according to ADR, RID, IMDG, IATA as amended in each case. The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

## Department issuing safety data sheet

UMCO Umwelt Consult GmbH Georg-Wilhelm-Str. 183 , D-21107 Hamburg Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de



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