

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 25/11/2011 Revision date 09/04/2018

S0521

Version: 2.0

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

### 1.1. Product identifier

Product form : Substance

Trade name : Trisodium citrate dihydrate

EC-No. : 200-675-3 CAS-No. : 6132-04-3

REACH registration No : 01-2119457027-40-xxxx

Product code : S0521

Formula : C6H5Na3O7 · 2H2O

Product group : Raw material

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only. Duchefa Biochemie B.V. products are intended

only for "in vitro laboratory" research purposes.

### 1.2.2. Uses advised against

No additional information available

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

#### **Supplier**

Duchefa Biochemie B.V.
A. Hofmanweg 71
2031 BH Haarlem - The Netherlands
T +31(0)23-5319093 - F +31(0)23-5318027
info@duchefa.nl

#### 1.4. Emergency telephone number

Emergency number : Supplier contact information:

+31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

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Organisation/Company	Address	Comment
World Health Organization world directory of poison centres	http://apps.who.int/poisoncentres/	Consult website for a local poison centre

### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2. Label elements

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

No labelling applicable

#### 2.3. Other hazards

No additional information available

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name : Trisodium citrate dihydrate

CAS-No. : 6132-04-3 EC-No. : 200-675-3

Name	Product identifier	%
Trisodium citrate dihydrate	(CAS-No.) 6132-04-3	> 99
	(EC-No.) 200-675-3	

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

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

### 4.1. Description of first aid measures

First-aid measures after inhalation : Assure fresh air breathing

Seek medical attention if ill effect or irritation develops.

First-aid measures after skin contact : Wash skin with mild soap and water

Seek medical attention if ill effect or irritation develops.

First-aid measures after eye contact : Rinse with water

Seek medical attention if ill effect or irritation develops.

First-aid measures after ingestion : Rinse mouth

Seek medical attention if ill effect or irritation develops.

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

No additional information available

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

No additional information available

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam.

Dry chemical powder. Carbon dioxide (CO2).

Water spray.

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

No additional information available

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### 5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including

respiratory protection.

Firefighting instructions : Use water spray or fog for cooling exposed containers.

# **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Equip cleanup crew with proper protection.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

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

Methods for cleaning up : Sweep up dry powder and dispose properly.

#### 6.4. Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice.

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

Storage conditions : Store at room temperature

Store in dry, well-ventilated area

Keep container closed when not in use.

### 7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

### Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

### Eye protection:

Safety glasses (to European standard EN 166 or equivalent)

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Where excessive dust may result, wear approved mask. Type P1 (EN 143)

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# SECTION 9: Physical and chemical properties

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

Physical state : Solid
Appearance : Crystals.
Molecular mass : 294,1 g/mol
Colour : White.

Odour : Odourless.

Odour threshold : No data available pH : 7,5 - 9 (50 g/l, 20 °C) Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available : No data available Freezing point **Boiling point** : No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20 °C : No data available : No data available Relative density

Density : 1,73 g/cm<sup>3</sup>

Solubility : Water: 720 g/l (20 °C)

Log Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data availableExplosive limits: No data available

#### 9.2. Other information

Bulk density :  $\approx 600 \text{ kg/m}^3$ 

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

### 10.3. Possibility of hazardous reactions

Stable under normal conditions.

#### 10.4. Conditions to avoid

Heat.

#### 10.5. Incompatible materials

Strong oxidizers.

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### 10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes:

- COx.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Trisodium citrate dihydrate (6132-04-3)	
LD50 oral rat	> 8000 mg/kg (anhydrous)

Skin corrosion/irritation : Not classified

pH: 7,5 - 9 (50 g/l, 20 °C)

Serious eye damage/irritation : Not classified

pH: 7,5 - 9 (50 g/l, 20 °C)

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Trisodium citrate dihydrate (6132-04-3)	
LC50 fish 1	18000 - 32000 mg/l Poecilia reticulata (Guppy)
EC50 Daphnia 1	5600 - 10000 mg/l EC50 48h - Daphnia magna [mg/l]

### 12.2. Persistence and degradability

Trisodium citrate dihydrate (6132-04-3)	
Biodegradation	98 %

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

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# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

# **SECTION 14: Transport information**

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA		
14.1. UN number				
Not regulated	Not regulated	Not regulated		
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated		
Not regulated	Not regulated	Not regulated		
14.3. Transport hazard class(es)	14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated		
Not regulated	Not regulated	Not regulated		
14.4. Packing group				
Not regulated	Not regulated	Not regulated		
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated		
No supplementary information available				

### 14.6. Special precautions for user

### . Overland transport

Not regulated

### - Transport by sea

Not regulated

### - Air transport

Not regulated

### 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

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Trisodium citrate dihydrate is not on the REACH Candidate List

Trisodium citrate dihydrate is not on the REACH Annex XIV List

### 15.1.2. National regulations

Ensure all national/local regulations are observed.

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Reference to AwSV : Water hazard class (WGK) 1, low

hazard to waters (Classification according to VwVwS, Annex 3; ID No.

2203)

12th Ordinance Implementing the Federal Immission Control Act -

12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: The substance is not listed : The substance is not listed

: The substance is not listed

: The substance is not listed

: The substance is not listed

### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

### Indication of changes:

1.4	Emergency number	Modified	
8.2	Hand protection	Modified	Specified material, thickness, et
			cetera of gloves

### Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

: ECHA (European Chemicals Agency). Supplier.

#### SDS Biochemicals version 2018

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product