

according to UK REACH Regulation

# Tri-sodium citrate 2.9 % (0.1 mol/l), pH 5.0

Revision date: 30.08.2023

Product code: 14254.xxxxx

Page 1 of 8

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

## 1.1. Product identifier

Tri-sodium citrate 2.9 % (0.1 mol/l), pH 5.0

UFI:

VSF8-N17T-T00D-PDFP

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

Use of the substance/mixture

laboratory reagent

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

Company name:	MORPHISTO GmbH	
Street:	Schumannstr. 144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.de	9
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Morphisto GmbH, Tel: +49(0)69 400 3019-60, Mo-Fr.: 09-16 Uhr	
<u>number:</u>		

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### GB CLP Regulation

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

# 2.2. Label elements

## Additional advice on labelling

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [CLP].

### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1% or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

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

# 3.2. Mixtures

### Hazardous components

none (according to UK REACH Regulation)

# **Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

# **SECTION 4: First aid measures**



according to UK REACH Regulation

# Tri-sodium citrate 2.9 % (0.1 mol/l), pH 5.0

Revision date: 30.08.2023

Product code: 14254.xxxx

Page 2 of 8

## 4.1. Description of first aid measures

## **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## After inhalation

Provide fresh air.

### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.

### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

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

No information available.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water. High power water jet.

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

Non-flammable. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2).

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

## Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

# General advice

Wear personal protection equipment.

## 6.2. Environmental precautions

No special measures are necessary.

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

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Rinse with water.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8



according to UK REACH Regulation

# Tri-sodium citrate 2.9 % (0.1 mol/l), pH 5.0

Revision date: 30.08.2023

Product code: 14254.xxxxx

Page 3 of 8

Disposal: see section 13

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

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin, eyes and clothes.

#### Advice on protection against fire and explosion

The product is not: Combustible.

#### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Suitable material for Container: polyethylene. Glass.

#### Hints on joint storage

Do not store together with: Oxidizing substances. Food and fodder

# Further information on storage conditions

Protect from direct sunlight. storage temperature: 15-25 °C

### 7.3. Specific end use(s)

laboratory reagent

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

### 8.1. Control parameters

## Additional advice on limit values

To date, no national critical limit values exist.

# 8.2. Exposure controls

#### Appropriate engineering controls

No special measures are necessary.

#### Individual protection measures, such as personal protective equipment

### Eye/face protection

Wear eye/face protection. Tightly sealed safety glasses. EN 166

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber. EN ISO 374

Suitable material:

(penetration time (maximum wearing period): >= 8 h):

Butyl rubber. (0,5 mm)

Protective clothing should be selected, depending on concentration and quantity of the hazardous substance. The chemical resistance of the products should be discussed with suppliers.

# Skin protection

Use of protective clothing. No special measures are necessary.

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

according to UK REACH Regulation

# Tri-sodium citrate 2.9 % (0.1 mol/l), pH 5.0

Revision date: 30.08.2023

Product code: 14254.xxxxx

Page 4 of 8

## Environmental exposure controls

No special measures are necessary.

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

# 9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	colourless	
Odour:	leichtstinging	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		not determined
boiling range:		
Flammability:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		>100 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value (at 20 °C):		4,8-5,2
Viscosity / kinematic:		not determined
Water solubility:		miscible.
(at 20 °C)		
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density (at 20 °C):		1,01 g/cm³
Relative vapour density:		not determined
Particle characteristics:		not applicable
9.2. Other information		

# Information with regard to physical hazard classes Explosive properties The product is not: Explosive. Oxidizing properties Not oxidising. Other safety characteristics Sublimation point:

Softening point: Pour point: Freezing point: Flow time: not applicable not applicable not applicable 0 °C not determined

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

Stable under normal storage and handling conditions.

# 10.3. Possibility of hazardous reactions

Reacts with : Oxidizing agents, strong. peroxides. Hydrogenium peroxide. Nitric acid.perchloric acid. Potassium peroxide.



according to UK REACH Regulation

# Tri-sodium citrate 2.9 % (0.1 mol/l), pH 5.0

Revision date: 30.08.2023

Product code: 14254.xxxxx

Page 5 of 8

### 10.4. Conditions to avoid

heat.

# 10.5. Incompatible materials

Oxidizing agents, strong. peroxides. Hydrogenium peroxide. Nitric acid. Perchlorsäure. Kaliumperoxid.

# 10.6. Hazardous decomposition products

Resulting from the use of the product: Chlorine.

### **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

## Aspiration hazard

Based on available data, the classification criteria are not met.

# 11.2. Information on other hazards

### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Other information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Based on available data, the classification criteria are not met.

### 12.2. Persistence and degradability

Product is biodegradable.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects



according to UK REACH Regulation

# Tri-sodium citrate 2.9 % (0.1 mol/l), pH 5.0

Revision date: 30.08.2023

Product code: 14254.xxxx

Page 6 of 8

No information available.

# Further information

Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation. Contents / container can be disposed of in accordance with national regulations.

## List of Wastes Code - residues/unused products

160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

#### List of Wastes Code - used product

160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

#### List of Wastes Code - contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Non-contaminated packages may be recycled.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Inland waterways transport (ADN)14.1. UN number or ID number:

14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

#### Marine transport (IMDG)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

# Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u>

14.4. Packing group:

# 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

### 14.6. Special precautions for user



according to UK REACH Regulation

# Tri-sodium citrate 2.9 % (0.1 mol/l), pH 5.0

Revision date: 30.08.2023

Product code: 14254.xxxxx

Page 7 of 8

No dangerous good in sense of this transport regulation.

# 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

# SECTION 15: Regulatory information

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

# EU regulatory information

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III):

National regulatory information

Water hazard class (D):

- - non-hazardous to water

## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,7,8,9,11,12,13,15,16. Rev. 1.00; 16.12.2013, Initial release Rev. 2,0; 30.08.2023; general adjustment(s)

#### Abbreviations and acronyms

CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNFL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods



according to UK REACH Regulation

# Tri-sodium citrate 2.9 % (0.1 mol/l), pH 5.0

Revision date: 30.08.2023

Product code: 14254.xxxx

Page 8 of 8

EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

## **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)