

# Safety Data Sheet

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

# **SECTION 1: Identification**

### **Product identifier**

Trade name/designation: Citric acid trisodium salt dihydrate REAGENT GRADE

Product No.: 0101

Synonymes: no data available CAS No.: 6132-04-3

Other means of identification:

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

Recommended Use: For Further Manufacturing Use Only
Uses advised against: Not for Human or Animal Drug Use

# Details of the supplier of the safety data sheet

### **Supplier**

### **VWR International LLC**

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### Manufacturer

**VWR Chemicals, LLC** 

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**Emergency telephone** 

Telephone +1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA)

**Preparation Information** 

VWR International - Data Compliance

E-mail sds@vwr.com

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

This substance is classified as not hazardous according to regulation 29 CFR 1910.1200 (OSHA HCS)

### 2.2 Label elements

### Labelling in accordance with 29 CFR 1910.1200 (OSHA HCS)

According to regulation 29 CFR 1910.1200 (OSHA HCS) the product does not have to be labelled.

### Hazards not otherwise classified (HNOC)

Not regulated

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

#### 3.1 Substances

Substance name

Molecular formula

Molecular weight

CAS No.

Sodium citrate dihydrate
Na3C6H5O7.2H2O
294.1 g/mol
6132-04-3

# **SECTION 4: First aid measures**

### 4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.



### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

### In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

# 4.2 Most important symptoms/effects, acute and delayed

no data available

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

no data available

### 4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

#### 4.5 Information to physician

no data available

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

#### Suitable extinguishing media

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

# Extinguishing media which must not be used for safety reasons

no restriction

# 5.2 Specific hazards arising from the chemical

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2)

### **5.3 Advice for firefighters**

DO NOT fight fire when fire reaches explosives.

Protective equipment and precautions for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### **Additional information**

Do not allow run-off from fire-fighting to enter drains or water courses.

Do not inhale explosion and combustion gases.

Use water spray/stream to protect personnel and to cool endangered containers.

In case of fire: Evacuate area.



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

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

Avoid dust formation.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

Spilled product must never be returned to the original container for recycling. Clean contaminated articles and floor according to the environmental legislation. Collect in closed and suitable containers for disposal.

#### 6.4 Additional information

Clear spills immediately.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible: Inhalation skin contact Eye contact If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Usual measures for fire prevention. Handle under (Gas): Protective gas, dry

# 7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: Ambient temperature Keep container tightly closed and in a well-ventilated place.

### 7.3 Specific end use(s)

no data available

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Engineering controls

### **Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

Eye/face protection

Eye glasses with side protection

Skin protection

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.



### By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,12 mm

Breakthrough time (maximum wearing time): > 480 min

By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,38 mm

Breakthrough time (maximum wearing time): > 480 min

Respiratory protection

Usually no personal respirative protection necessary.

Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

Environmental exposure controls

no data available



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

### 9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state: solid
Color: white

(b) Odour: no data available (c) Odour threshold: no data available

# Safety relevant basic data

(d) pH: 7.5-9.5 (50 g/l; H2O; 20 °C)

(e) Melting point/freezing point: 150 °C

(f) Initial boiling point and boiling range:no data available(g) Flash point:no data available(h) Evaporation rate:no data available(i) Flammability (solid, gas):not applicable

(j) Flammability or explosive limits

Lower explosion limit:
Upper explosion limit:
(k) Vapour pressure:
(l) Vapour density:
(m) Relative density:

no data available
no data available
1.76 g/cm³ (20 °C)

(n) Solubility(ies)

Water solubility (g/L):

Soluble (g/L) in Ethanol:

(o) Partition coefficient: n-octanol/water:

(p) Auto-ignition temperature:

no data available

no data available

no data available

no data available

(r) Viscosity

Kinematic viscosity: no data available
Dynamic viscosity: no data available
(s) Explosive properties: not applicable
(t) Oxidising properties: not applicable

### 9.2 Other information

Bulk density: 1.76 g/cm³ (20 °C)
Refraction index: no data available
Dissociation constant: no data available
Surface tension: no data available
Henry constant: no data available

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

no data available



### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

### 10.7 Additional information

no data available

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

### **Acute effects**

Acute oral toxicity:

LD50: < 8000 mg/kg - Rat - (IUCLID)

Acute dermal toxicity:

no data available

Acute inhalation toxicity:

no data available

### Irritant and corrosive effects

Primary irritation to the skin:

not applicable

Irritation to eyes:

not applicable

*Irritation to respiratory tract:* 

not applicable

### Respiratory or skin sensitization

In case of skin contact: not sensitising After inhalation: not sensitising

# STOT-single exposure

not applicable

# STOT-repeated exposure

not applicable



# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| no data<br>available | ACGIH | IARC | NTP | OSHA |
|----------------------|-------|------|-----|------|
|                      |       |      |     |      |

### Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

### Reproductive toxicity

No indications of human reproductive toxicity exist.

### Aspiration hazard

not applicable

#### Other adverse effects

no data available

### **Additional information**

no data available

# **SECTION 12: Ecological information**

### 12.1 Ecotoxicity

### Fish toxicity:

no data available

### Daphnia toxicity:

EC50: 736 mg/l (48 h) - Warne, M.S.J., and A.D. Schifko 1999. Toxicity of Laundry Detergent Components to a Freshwater Cladoceran and Their Contribution to Detergent Toxicity. Ecotoxicol.Environ.Saf. 44(2):196-206

# Algae toxicity:

no data available

### **Bacteria toxicity:**

no data available

# 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

# 12.4 Mobility in soil:

no data available



# 12.5 Results of PBT/vPvB assessment

no data available

#### 12.6 Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

### Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

#### Appropriate disposal / Package

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

#### **Additional information**

no data available

# **SECTION 14: Transport information**

### Land transport (DOT)

No dangerous good in sense of this transport regulation.

# Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

### Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

# **SECTION 15: Regulatory information**

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

**SARA 313 Components** 

Not listed.

**Massachusetts Right To Know Components** 

Not listed.



**Pennsylvania Right To Know Components** 

Not listed.

**New Jersey Right To Know Components** 

Not listed.

California Prop. 65 Components

Not listed.

# **SECTION 16: Other information**

### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts

**DOT** - Department of Transportation

IARC - International Agency for Research on Cancer

IATA-DGR - International Air Transport Association-Dangerous Goods Regulations

ICAO-TI - International Civil Aviation Organization-Technical Instructions

IMDG - International Maritime Code for Dangerous Goods

LTV - Long Term Value

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety & Health Administration

PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit

STV - Short Term Value

SVHC - Substances of Very High Concern

TDG - Transport of Dangerous Goods

TLV - Threshold Limit Value

vPvB - very Persistent, very Bioaccumulative

# Additional information

Indication of changes: general update

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state knowledge and is applicable to the product with regard to appropriate safty precautions. It does not represent any guarantee of the properties of the product. VWR International and his Affiliates shall not be held liable for any damage resulting from handling.