

Trade name: Natrii citras

Substance number: 066040

Version: 4 / CH

Date revised: 24.04.2023

Replaces Version: 3 / CH

Print date: 24.04.23

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

1.1. Product identifier

Natrii citras

Item No. 06604000

Substance / product identification

CAS-No. 6132-04-3

EINECS-No. 200-675-3

INCI Trinatriumcitrat

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

Use of the substance/preparation

Manufacture of cosmetics, food additive, industry, Cleaning agent

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

Dust can form an explosive mixture with air.

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients ***

3.1. Substances

Molecular weight

Value 294.1 g/mol

Further ingredients ***

trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate

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CAS No. 6132-04-3
EINECS no. 200-675-3, 612-118-5
Registration no. 01-2119457027-40-0003
Concentration >= 95 %
Advice: [4]

Note

[4] Voluntary information

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Remove the casualty into fresh air and keep him calm. Take medical treatment.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. Wash off immediately with soap and water and rinse well. Don't use solvents.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Treat symptomatically

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Dry powder, Foam, Carbon dioxide

5.2. Special hazards arising from the substance or mixture

Development of toxic gases

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

No special measures required.

Other information

Suppress vapours with water spray jet.

SECTION 6: Accidental release measures**6.3. Methods and material for containment and cleaning up**

When picked up, treat material as prescribed under Section 13 "Disposal". Avoid raising dust. Rinse away with water.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Transfer and handle in enclosed systems is recommended. When filling, transferring, or emptying of containers, adequate suctioning close to work place necessary. Take action to prevent static discharges.

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7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value	10	-	30	°C
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Requirements for storage rooms and vessels

Suitable materials: Use glass containers. Use enamelled containers. Use polyethylene or polypropylene containers. Use containers with inside laquer. Suitable material: stainless steel. Unsuitable material: Use aluminium containers. Do not use containers, lines etc. made of copper or copper alloys. Do not use steel containers. Keep container tightly closed and dry.

Storage classes

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	NG	Other solid hazardous substances without classification/labelling hazardous

Further information on storage conditions

Protect from atmospheric moisture and water.

SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

Exposure controls

See Section 7. No measures exceeding the ones mentioned necessary.

Respiratory protection

At intensive and longer exposition use self-contained breathing apparatus. Dust mask; Particle filter half mask, filter P3 - Norm NF EN 149; Full mask

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	nitrile rubber - NBR
Material thickness	> 0.3 mm
Breakthrough time	> 8 h

Hand protection must comply with EN 374.

Eye protection

Safety glasses; Eye protection must comply with EN 166.

Body protection

Protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	colourless to white
Odour	odourless
Physical state	Powder
Physical state	Granules

Melting point

Value	> 300	°C
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Flash point

Value	290	°C
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Method closed cup

pH value

Value	8.0	to	8.7
Concentration/H ₂ O	50	g/l	

Solubility(ies)

Ethanol	
Remarks	insoluble

Density and/or relative density

Value	1.76	g/cm ³
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9.2. Other information**Solubility in water**

Value	720	g/l
Temperature	25	°C

Auto-ignition temperature

Value	> 200	°C
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Explosive properties

evaluation	Dust
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Other information

Product is hygroscopic.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

10.2. Chemical stability

No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat.

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Keep away from sources of heat and ignition. Avoid dust formation.

10.5. Incompatible materials

Oxidising agents, Reducing agents, Bases

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate**

Species	rat		
LD50	>	8000	mg/kg

Acute dermal toxicity (Components)**trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate**

Species	rat		
LD50	>	2000	mg/kg

Skin corrosion/irritation

evaluation	non-irritant
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Serious eye damage/irritation

evaluation non-irritant

Sensitization

Species guinea pig

Remarks None

Subacute, subchronic, chronic toxicity

Chronic toxicity

Route of exposure oral

Species rat

NOAEL 1200 mg/kg

Duration of exposure 2 y

Mutagenicity

evaluation No mutagenicity in the Ames-test.

Reproductive toxicity

Remarks negative

Carcinogenicity

Species rat

Remarks None

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity (Components)****trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate**

Species	guppy (<i>Poecilia reticulata</i>)			
LC50	18000	to	32000	mg/l
Duration of exposure	96	h		

Daphnia toxicity (Components)**trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate**

Species	Daphnia magna			
EC50	5600	to	10000	mg/l
Duration of exposure	48	h		

Algae toxicity (Components)**trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate**

Species	Chlorella vulgaris			
EC50	18000	to	32000	mg/l
Duration of exposure	96	h		

Bacteria toxicity (Components)**trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate**

Species	Pseudomonas putida			
EC50	1800	to	3200	mg/l
Duration of exposure	8	h		

12.2. Persistence and degradability**Biodegradability (Components)**

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trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate

Value	93	%
Duration of test	0.125	d
Remarks	The product is biodegradable.	
Source	100 mg/l	

trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate

Value	90	%
Duration of test	30	d
evaluation	Readily biodegradable	
Source	5 mg/l	

12.3. Bioaccumulative potential**Bioconcentration factor (BCF) (Components)**

trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate	
BCF	0.5

12.4. Mobility in soil**General information**

No data available

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

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information ***

	Land transport ADR/RID	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany) *****

Water Hazard Class WGK 1

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(Germany)
Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.