

SAFETY DATA SHEET

Jungbunzlauer

Trisodium Citrate Dihydrate

Version C

Revision Date 26.06.2015

Print Date 26.06.2015

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Trisodium Citrate Dihydrate

Substance name : Trisodium Citrate Dihydrate

Molecular formula : C₆H₅O₇Na₃ · 2H₂O

Chemical identity : Trisodium 3-hydroxy-3-carboxylate-1,5-pentanedicarboxylate

CAS-No. : 6132-04-3

EC-No. : 200-675-3

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

Use of the Sub-stance/Mixture : Food/ feedstuff additives, Cosmetic additive, Medical aids, Industrial use

1.3 Details of the supplier of the safety data sheet

Company : Jungbunzlauer Canada Inc.
1555 Elm Street
Port Colborne, Ontario L3K 5V5
Canada
www.jungbunzlauer.com

Telephone : +1 905 835-5444

Telefax : +1 905 835-0061

E-mail address : msds@jungbunzlauer.com

1.4 Emergency telephone number

Telephone : CANUTEC +1 613 996-6666
CHEMTREC +1 800 424-9300

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

The product does not need to be labelled in accordance with EC directives or respective national laws.

Trisodium Citrate Dihydrate

Version C

Revision Date 26.06.2015

Print Date 26.06.2015

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products formed under fire conditions.
Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment.
Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.

6.4 Reference to other sections

No conditions to be specially mentioned.

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Avoid creating dust.
Do not breathe dust.
Avoid contact with skin and eyes.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Dust explosion class : St1

Trisodium Citrate Dihydrate

Version C

Revision Date 26.06.2015

Print Date 26.06.2015

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: Crystalline product
Colour	: white
Odour	: odourless
Flammability (solid, gas)	: does not ignite
Oxidizing properties	: No oxidising effect.
Molecular Weight	: 294,1 g/mol
pH	: 7,5 - 9,0 at 5 % 25 °C
Melting point/range	: > 150 °C
Density	: 1,86 g/cm ³ at 20 °C
Water solubility	: 400 - 700 g/l at 20 - 25 °C
Partition coefficient: n-octanol/water	: log Pow: -1,8 - -0,2 Calculation

9.2 Other information**10. Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

10.4 Conditions to avoid

Conditions to avoid : Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : no data available

Trisodium Citrate Dihydrate

Version C

Revision Date 26.06.2015

Print Date 26.06.2015

Germ cell mutagenicity

Assessment

Trisodium Citrate Dihydrate : In vivo tests did not show mutagenic effects

Carcinogenicity

Assessment

Trisodium Citrate Dihydrate : Did not show carcinogenic or teratogenic effects in animal experiments.

Aspiration hazard

Aspiration toxicity

Trisodium Citrate Dihydrate : No aspiration toxicity classification

12. Ecological information**12.1 Toxicity**

Toxicity to fish

Trisodium Citrate Dihydrate : LC50: > 18.000 - 32.000 mg/l
Exposure time: 672 h
Species: Poecilia reticulata (guppy)

Toxicity to daphnia and other aquatic invertebrates

Trisodium Citrate Dihydrate : EC50: 5.600 - 10.000 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae

Trisodium Citrate Dihydrate : EC50: 18.000 - 32.000 mg/l
Exposure time: 96 h
Species: Chlorella vulgaris (Fresh water algae)
Method: OECD Test Guideline 201

Toxicity to bacteria

Trisodium Citrate Dihydrate : EC50: > 1.800 - 3.200 mg/l
Exposure time: 8 h
Species: Bacteria**12.2 Persistence and degradability**

Biodegradability

Trisodium Citrate Dihydrate : aerobic
Result: Readily biodegradable.
98 %
Exposure time: 2 d
Method: OECD Test Guideline 302

Trisodium Citrate Dihydrate

Version C

Revision Date 26.06.2015

Print Date 26.06.2015

IMDG

Not dangerous goods

RID

Not dangerous goods

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Major Accident Hazard Leg- : 96/82/EC Update: 2003
islation Directive 96/82/EC does not apply

Notification status

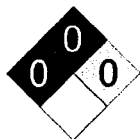
CERCLA : Not considered hazardous
SARA Title III : Not considered hazardous
EINECS : On the inventory, or in compliance with the inventory
TSCA : On TSCA Inventory
AICS : On the inventory, or in compliance with the inventory
DSL : All components of this product are on the Canadian DSL list.
WHMIS : Uncontrolled product according to WHMIS classification criteria
ENCS : On the inventory, or in compliance with the inventory
KECI : On the inventory, or in compliance with the inventory
PICCS : On the inventory, or in compliance with the inventory
IECSC : On the inventory, or in compliance with the inventory
NZIoC : On the inventory, or in compliance with the inventory

15.2 Chemical Safety Assessment**16. Other information**

HMIS - Hazardous Materials Identification System of the National Paint & Coatings Association

Health Hazard	0
Fire Hazard	0
Reactivity	0
Personal Protection	

NFPA – National Fire Protection Association



The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.