

MATERIAL SAFETY DATA SHEET

1. Product Identification

Chemical Product name : **Tri-Sodium Citrate Dihydrate**

Trade Name : **Tri-Sodium Citrate Dihydrate**

Supplier : Level 7 Chemical
255 Strugis Rd
Conway, AR 72034

Telephone number emergencies : Chemtrec (800) 424-9300

2. Composition / Information about dangerous components

Substances / Preparation :

Chemical Name	CAS Number	EG number	E-No.	R-sentences
	61-32-04-3		E-331	

Currently the CAS (Chemical Abstracts Service) distinguishes between the two common hydration forms of Trisodium Citrate: Anhydrous and Dihydrate. Unfortunately the CAS No. for the Anhydrous form (68-04-2) is the one that is generally referred to in compendia like the TSCA (Toxic Substance Control Act), DSL (Domestic Substance List) or FCC (Food Chemical Codex). This does not mean that the Dihydrate form (6132-04-3) is not recognized or not approved, but any reference on Trisodium Citrate is listed under TSCA, 68-04-2. The same is valid for the DSL. Importation to US and Canada is no problem.

3. Hazards Identification

Physical / Chemical Risks : **None**

Environmental Risks : **None/biologically degradable.**

Health Risks : **None known.**

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4. First Aid Measures

Effects and Symptoms

- | | | |
|--------------------|---|---|
| After swallowing | : | Large quantities may cause nausea, vomiting cramps, and produce acidic irritation of mouth, and throat. |
| After inhalation | : | No information available. |
| After skin contact | : | No information available. |
| After eye contact | : | No information available. |
| General | : | Irritation. Some allergic reactions. |

First Aid Measures

- | | | |
|------------------|---|--|
| After swallowing | : | Give 2-3 glasses of water or milk to drink
Induce vomiting. Get medical attention.. |
| Inhalation | : | Remove to fresh air. If not breathing,
administer cardio-pulmonary resuscitation or
artificial respiration. Get medical attention. |
| Skin contact | : | Rinse with water and soap. |
| Eye contact | : | Rinse with water. Get medical attention. |

5. Fire Fighting Measures

Extinguishing agents

- | | | |
|---|---|---|
| Suitable | : | Not combustible. Use appropriate
extinguishing media for material that is
supplying fuel. |
| Unsuitable | : | - |
| Specific measures | : | - |
| Unusual fire/explosion risks | : | - |
| Dangerous thermic
decomposition and
combustion products | : | - |
| Protection of fire fighting
crews | : | |

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6. Accidental Release Measures

- Personal protection measures :
Environmental protection :
measures
Cleaning methods : With mechanical means and/or flush with water.

7. Handling and Storage

- Handling : No specific requirements.
Storage : Avoid humidity and high temperatures. Note that material is slightly hygroscopic

Packing Measures

- Suitable : Polyethylene-lined bags, drums, big bags, etc.

8. Exposure Control and Personal Protection

- Technical Exposure control : -
Hygienic measures : Dust masks.

Upper professional exposure limits

Chemical Name

"TLV" (USA) :

"MAK"(Germany) :

Personal protection measures

- Breathing equipment : Dust masks.
Skin and body : Clothes.
Hands : Gloves.
Eyes : Safety glasses.

9. Physical and Chemical Properties:

- Appearance : Dry granulates.
Colour : White.

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Smell	: No unusual odour.
Boiling \ Melting point	: Solid.
pH	: (5% solution) - 7.5-9
Solubility in water	:
Vapor pressure (air = 1)	: Practically zero
Vapor density (air = 1)	: 2.2
Flash point	: Not combustible.
Ignition temperature	: 345 degrees Celsius
Lower explosion limit	: -
Upper explosion limit	: -

10. Stability and Reactivity

Stability	: Stable.
Circumstances to be avoided	: -
Substances to be avoided	: Peroxides
Dangerous decomposition products	: Not known.

11. Toxicological Information

Chemical Name	:
<u>Acute toxicity</u>	IVN-MUS LD50 170 mg kg ⁻¹ IVN-RBT LD50 449 mg kg ⁻¹
Oral	:
Dermal	: IPR-RAT LD50 1548 mg kg ⁻¹ IPR-MUS LD50 1364 mg kg ⁻¹
Breathing wise	:
Eye effects	: Not known.
Skin effects	: Not known.
Sensitivity	: Not known.

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Chronic Toxicity : Not known.

Carcinogenicity : Not known.

12. Ecological Information

Ecological details of substance are not available.

Chemical Name :

Ecotoxicity :

Exotoxicity :

13. Instructions for Disposal

Disposal methods : Gather mechanically.
According to local
regulations. Water soluble.

14. Transport Information

UN Number :

Road & Rail Transport

ADR/RID Class :

ADR/RID Class :

Inland waterways

ADNR Class :

Sea transport

IMDG Page number :

Air Transport

IATA Class :

National transport laws :

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15. Legally Required Information

Danger designation :
Safety phrases :
Risk phrases :
National Regulations :

16. Other Information

History

Date of first issue : 10.03.1996
Date of last issue : 25.01.2009

Warranty

This information herein given in good faith and to the best of our knowledge. Since we have no control over the use of the product, we make no warrantee or representation, expressed or implied, other than that it conforms to the chemical description on its label. No agent, representative or employee of Level 7 Chemical is authorized to change any terms of this notice.