


<b>Material Safety Data Sheet</b>	
<b>tri-SODIUM CITRATE (DIHYDRATE) LR</b>	<b>VERSION : 04</b> <b>DATE OF ISSUE : 01-08-2023</b> <b>SUPERSEDES : 03</b>
<b>Product Code : 18280</b>	<b>Page 1 of 7</b>

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

### **1.1. Product identifier**

**Trade name** : tri-SODIUM CITRATE DIHYDRATE LR  
**Product code** : 18280  
**Identification of the product** : tri-SODIUM CITRATE (DIHYDRATE)  
**CAS-No.** : 6132-04-3

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

**Identified uses** : Pharmaceutical production and analysis

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

**Company identification** : MOLYCHEM  
 Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)  
 Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.  
 Email : [info@molychem.net](mailto:info@molychem.net)  
 Works: Plot No. B/9, Badlapur  
 M.I.D.C.,OPP.Shobhavat Textile Co.,Kulgaon, Badlapur (E),  
 Dist.-Thane-421 503

### **1.4. Emergency telephone number**

**Emergency number** : +91 22 4066 8111 (10:00am - 6:00 pm)

## **2. Hazards identification -DSD**

### **2.1. Classification of the substance or mixture**

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

### **2.2. Label elements**

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

### **Labelling Regulation EC 1272/2008 (CLP)**

Not classified.

### **2.3. Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **3. Composition/information on ingredients**


### **3.1 Substances**

**Formula** :  $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7 \cdot 2\text{H}_2\text{O}$   
**Molecular weight** : 294.10 g/mol  
**CAS-No.** : 6132-04-3  
**EC-No.** : 200-675-3

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No components need to be disclosed according to the applicable regulations.

#### **4. First aid measures**

##### **4.1. Description of first aid measures**

###### **If inhaled**

After inhalation: fresh air. In case of skin contact

###### **In case of skin contact:**

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

###### **In case of eye contact**

After eye contact: rinse out with plenty of water. Remove contact lenses.

###### **If swallowed**

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

#### **5. Fire-fighting measures**

##### **5.1. Extinguishing media**

###### **Extinguishing media**

###### **Suitable extinguishing media**

Water Foam Carbon dioxide (CO2) Dry powder

###### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

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

Carbon oxides

Sodium oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

##### **5.3. Advice for fire-fighters**

In the event of fire, wear self-contained breathing apparatus.

##### **5.4 Further information**

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.


#### **6. Accidental release measures**

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

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Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

## **6.2. Environmental precautions**

Do not let product enter drains.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## **6.4. Reference to other sections**

For disposal see section 13.

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

For precautions see section 2.2.

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

#### **Storage conditions**

Tightly closed. Dry.

Recommended storage temperature see product label.

#### **Storage class**

Storage class (TRGS 510): 11: Combustible Solids

### **7.3. Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **8. Exposure controls/personal protection**

### **8.1. Exposure controls**

**Personal protection** : Avoid all unnecessary exposure.

**Respiratory protection** : Wear approved mask.

**Hand protection** : Wear protective gloves.

**Eye protection** : Chemical goggles or safety glasses.

**Others** : When using, do not eat, drink or smoke.

### **8.2. Control parameters**

**Occupational Exposure Limits** : No data available.

## **9. Physical and chemical properties**


### **9.1. Information on basic physical and chemical properties**

- |                   |                        |
|-------------------|------------------------|
| a) Physical state | solid                  |
| b) Color          | white                  |
| c) Odor           | No data available      |
| d) Melting        | Melting point: >300 °C |

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point/freezing point	
e) Initial boiling point and boiling range	No data available
f) Flammability (solid, gas)	No data available
g) Upper/lower flammability or explosive limits	No data available
h) Flash point	Not applicable
i) Autoignition temperature	No data available
j) Decomposition temperature	No data available
k) pH	7.5 - 9 at 29.4 g/l at 25 °C
l) Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m) Water solubility	29.4 g/l at 20 °C - completely soluble
n) Partition coefficient: n-octanol/water	No data available
o) Vapor pressure	No data available
p) Density	No data available
Relative density	No data available
q) Relative vapor density	No data available
r) Particle characteristics	No data available
s) Explosive properties	No data available
t) Oxidizing properties	none

## 9.2. Other information

No data available

## 10. Stability and reactivity

### 10.1. Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

### 10.2. Chemical stability

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

### 10.3 Possibility of hazardous reactions


Violent reactions possible with:

Strong oxidizing agents

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#### 10.4. Conditions to avoid

No information available

#### 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

In the event of fire: see section 5

### 11. Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: No data available
Serious eye damage/irritation	: No data available.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: No data available
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

### 12. Ecological information

#### 12.1. Toxicity

Toxicity to fish	LC50 - Poecilia reticulata (guppy) - > 18.000 - 32.000 mg/l - 96 h
Remarks: (anhydrous substance)	(IUCLID)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 5.600 - 10.000 mg/l - 48 h
	Remarks: (anhydrous substance)
	(IUCLID)

#### 12.2. Persistence – degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

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


This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Endocrine disrupting properties

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No data available.

#### 12.7 Other adverse effects

No data available

### **13. Disposal considerations**

#### **13.1. Waste treatment methods**

No additional information available

### **14. Transport information**

#### **14.1. UN number**

ADR/RID: -

IMDG: -

IATA: -

#### **14.2. UN proper shipping name**

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

#### **14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

#### **14.4 Packaging group**

ADR/RID: -

IMDG: -

IATA: -

#### **14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

#### **14.6 Special precautions for user**

##### **Further information**

Not classified as dangerous in the meaning of transport regulations

### **15. Regulatory information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **15.2. Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

### **16. Other information**

**Abbreviations and acronyms : PBT:** persistent, bioaccumulative and toxic.


**vPvB:** very persistent and very bioaccumulative

**Sources of key data used :** REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and

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packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information :** None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

**End of document**

**Prepared by: MOLYCHEM (INDIA)**

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