# SAFETY DATA SHEET



**Order Number Customer Number** 

### Identification of the substance/preparation and of the company/undertaking 1.

**Product name** Sodium Citrate, Dihydrate, Molecular Biology Grade Catalog # : 567446

C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>Na<sub>3</sub> · 2H<sub>2</sub>O

Supplier Manufactured by EMD Biosciences, Inc.

10394 Pacific Center Court San Diego, CA 92121 (858)450-5558/(800)854-3417

FAX: (858)453-3552

Synonym Not available

Chemical formula

**Emergency telephone**:

Call Chemtrec® (800)424-9300 (within U.S.A.) (703)527-3887 (outside U.S.A.)

## Composition / information on ingredients

Substance/Preparation Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
Sodium Citrate, Dihydrate, Molecular Biology Grade	6132-04-3	Not available.	-	-

#### Hazards identification **3.**

Physical/chemical hazards : Not applicable. Human health hazards No specific hazard.

#### 4. First-aid measures

### First-Aid measures

**Eve Contact** 

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical Inhalation

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious Ingestion person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may

**Skin Contact** be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Cold water may be used. Get medical attention.

Aggravating conditions : Repeated or prolonged exposure is not known to aggravate medical condition.

### 5. Fire-fighting measures

Flammability of the Product

: May be combustible at high temperature.

**Extinguishing Media** 

Suitable

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Hazardous thermal (de)composition

: These products are carbon oxides (CO, CO2). Some metallic oxides.

Special fire-fighting procedures

: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

**Protection of fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

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### 6. Accidental release measures

Personal precautions

Small Spill and Leak

- : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
- Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill and Leak

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Handling and storage

Handling

: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 20°C (68°F).

Packaging materials

Recommended use : Use original container.

### 8. Exposure controls/personal protection

**Engineering measures** 

: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Hygiene measures

: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name

Occupational Exposure Limits

Sodium Citrate, Dihydrate, Molecular Biology Grade

Not available.

### Personal protective equipment

Skin and body : Lab coat.

Eyes : Safety glasses.

**Protective Clothing (Pictograms)** 



### 9. Physical and chemical properties

Physical state : Solid. (Crystalline solid.)

Color : White.

Molecular Weight : 294.1 g/mole

Solubility : Easily soluble in cold water.

Flash point : Not available.

Explosive properties: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

ilishs of explosion of the product in presence of static discharge. Not available.

## 10. Stability and reactivity

Stability

: The product is stable.

Conditions to avoid

Not available.

**Hazardous Decomposition Products** 

: These products are carbon oxides (CO, CO2). Some metallic oxides.

## 11. Toxicological information

RTECS #

: GE8300000

Local effects
Skin irritation

: Not available.

Acute toxicity

LD50: Not available.

Chronic toxicity

LC50: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Other Toxic Effects on Humans

Not available.

No specific information is available in our database regarding the other toxic effects of this material for humans.

Not available.

Not available.

Carcinogenic effects Not available. Not available. **Mutagenic effects** Reproduction toxicity Not available. : Not available. Teratogenic effects

### **Ecological information**

**Ecotoxicity** 

: Not available.

Toxicity of the Products of **Biodegradation** 

: The product itself and its products of degradation are not toxic.

### 13. Disposal considerations

Methods of disposal; Waste of residues; : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated packaging

### Transport information

International transport regulations

Land - Road/Railway

**ADR/RID Class** : Not controlled under ADR (Europe).

Sea

**IMDG Class** : Not controlled under IMDG.

**IATA-DGR Class** : Not controlled under IATA.

**Special Provisions for** 

**Transport** 

Not applicable.

## Regulatory information

EU Regulations

**Risk Phrases** : This product is not classified according to the EU regulations.

U.S. Federal Regulations

TSCA: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

**HCS Classification** Not controlled under the HCS (United States).

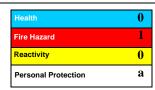
**State Regulations** 

WHMIS (Canada) : Not controlled under WHMIS (Canada).

No products were found.

### Other information

**Hazardous Material Information System** (U.S.A.)



**National Fire Protection Association** (U.S.A.)



### Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. \*\*This product is intended for research use only.\*\*

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