



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## MATERIAL SAFETY DATA SHEET

### 1 Identification of substance:

**Product Name:** Zinc citrate tribasic dihydrate  
**Catalog Number:** sc-224454  
**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, California 95060  
800.457.3801 or 831.457.3800  
**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255  
(1-800-CHEMCALL) or call +613 9573 3112

### 2 Hazard(s) identification

**Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**  
The substance is not classified as hazardous to health or the environment according to the CLP regulation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable

**Information concerning particular hazards for human and environment:**

Not applicable

No information known.

**Hazards not otherwise classified** No information known.

#### Label elements

**Labelling according to Regulation (EC) No 1272/2008** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**WHMIS classification** Not controlled

**Classification system**

**HMIS ratings (scale 0-4)**

(Hazardous Materials Identification System)

|            |   |                            |
|------------|---|----------------------------|
| HEALTH     | 1 | Health (acute effects) = 1 |
| FIRE       | 1 | Flammability = 1           |
| REACTIVITY | 1 | Physical Hazard = 1        |

#### Other hazards

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3 Composition/information on ingredients

**Chemical characterization: Substances**

**CAS# Description:**

5990-32-9 Zinc citrate

**Identification number(s):**

**EC number:** 208-901-2

### 4 First-aid measures

**Description of first aid measures**

**After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

**After skin contact**

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

**After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing** Seek medical treatment.

**Information for doctor**

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

**Extinguishing media****Suitable extinguishing agents**

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture**

If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide

**Advice for firefighters****Protective equipment:**

Wear self-contained respirator.

Wear fully protective impervious suit.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

**Environmental precautions:**

Do not allow material to be released to the environment without proper governmental permits.

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

**Methods and material for containment and cleaning up:** Pick up mechanically.

**Prevention of secondary hazards:** No special measures required.

**Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

**Handling****Precautions for safe handling**

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

**Information about protection against explosions and fires:** No information known.

**Conditions for safe storage, including any incompatibilities**

**Storage** Store at room temperature.

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Store away from oxidizing agents.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

**Control parameters**

**Components with limit values that require monitoring at the workplace:** Not required.

**Additional information:** No data

**Exposure controls****Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Maintain an ergonomically appropriate working environment.

**Breathing equipment:** Use suitable respirator when high concentrations are present.

**Protection of hands:**

Impervious gloves

Check protective gloves prior to each use for their proper condition.

The selection of suitable gloves not only depends on the material, but also on quality.

Quality will vary from manufacturer to manufacturer.

**Eye protection:** Safety glasses

**Body protection:** Protective work clothing.

## 9 Physical and chemical properties

|  |  |
|--|--|
| <b>Information on basic physical and chemical properties</b> |  |
| <b>General Information</b>                                   |  |
| <b>Appearance:</b>   |  |
| <b>Form:</b>   | Powder   |
| <b>Formula:</b>  | C <sub>12</sub> H <sub>10</sub> O <sub>14</sub> Zn <sub>3</sub> •2H <sub>2</sub> O |
| <b>Weight:</b>   | 610.37   |
| <b>pH-value:</b>   | Not applicable.  |
| <b>Change in condition</b>                                   |  |
| <b>Melting point/Melting range:</b>                          | Not determined   |
| <b>Boiling point/Boiling range:</b>                          | Not determined   |
| <b>Sublimation temperature / start:</b>                      | Not determined   |
| <b>Flash point:</b>  | Not applicable   |
| <b>Flammability (solid, gaseous)</b>                         | Product is not flammable.  |
| <b>Ignition temperature:</b>                                 | Not determined   |
| <b>Decomposition temperature:</b>                            | Not determined   |
| <b>Auto igniting:</b>  | Not determined.  |
| <b>Danger of explosion:</b>                                  | Product does not present an explosion hazard.                                      |
| <b>Explosion limits:</b>                                     |  |
| <b>Lower:</b>  | Not determined   |
| <b>Upper:</b>  | Not determined   |
| <b>Vapor pressure:</b>                                       | Not applicable.  |
| <b>Density:</b>  | Not determined   |
| <b>Relative density</b>                                      | Not determined.  |
| <b>Vapor density</b>   | Not applicable.  |
| <b>Evaporation rate</b>                                      | Not applicable.  |
| <b>Solubility in / Miscibility with</b>                      |  |
| <b>Water:</b>  | Not determined   |
| <b>Partition coefficient (n-octanol/water):</b>              | Not determined.  |
| <b>Viscosity:</b>  |  |
| <b>dynamic:</b>  | Not applicable.  |
| <b>kinematic:</b>  | Not applicable.  |
| <b>Other information</b>                                     | No further relevant information available.   |

## 10 Stability and reactivity

**Reactivity** No information known.

**Chemical stability** Stable under recommended storage conditions.

**Thermal decomposition / conditions to be avoided:**

Decomposition will not occur if used and stored according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:** No effects known.

**LD/LC50 values that are relevant for classification:** No data

**Skin irritation or corrosion:** May cause irritation

**Eye irritation or corrosion:** May cause irritation

**Sensitization:** No sensitizing effects known.

**Germ cell mutagenicity:** No effects known.

**Carcinogenicity:**

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

**Reproductive toxicity:** No effects known.

**Specific target organ system toxicity - repeated exposure:** No effects known.

**Specific target organ system toxicity - single exposure:** No effects known.

**Aspiration hazard:** No effects known.

**Subacute to chronic toxicity:**

Zinc containing fumes may cause metal fume fever. Effects include dry throat, metallic taste, chest pain, dyspnea, rales and dry cough. Several hours later, chills may occur with lassitude, malaise, fatigue, headache, back pain, muscle cramps, blurred vision, nausea, fever, perspiration, vomiting and leukocytosis.

**Additional toxicological information:**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

**12 Ecological information****Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Additional ecological information:****General notes:**

Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Avoid transfer into the environment.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

**13 Disposal considerations****Waste treatment methods**

**Recommendation** Consult state, local or national regulations to ensure proper disposal.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

Not a hazardous material for transportation.

|  |  |
|--|--|
| <b>UN-Number</b><br>DOT, ADR, IMDG, IATA                                       | None   |
| <b>UN proper shipping name</b><br>DOT, ADR, IMDG, IATA                         | None   |
| <b>Transport hazard class(es)</b><br>DOT, ADR, IMDG, IATA<br>Class             | None   |
| <b>Packing group</b><br>DOT, ADR, IMDG, IATA                                   | None   |
| <b>Environmental hazards:</b>  | Not applicable.                                      |
| <b>Special precautions for user</b>  | Not applicable.                                      |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| <b>DOT</b><br><b>Marine Pollutant (DOT):</b>                                   | No   |

## 15 Regulatory information

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

### **National regulations**

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

|  |  |
|--|--|
| <b>SARA Section 313 (specific toxic chemical listings)</b> |  |
|--|--|

|           |              |
|-----------|--------------|
| 5990-32-9 | Zinc citrate |
|-----------|--------------|

### **California Proposition 65**

**Prop 65 - Chemicals known to cause cancer** Substance is not listed.

**Prop 65 - Developmental toxicity** Substance is not listed.

**Prop 65 - Developmental toxicity, female** Substance is not listed.

**Prop 65 - Developmental toxicity, male** Substance is not listed.

### **Information about limitation of use:**

For use only by technically qualified individuals.

This product contains zinc and is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

### **Other regulations, limitations and prohibitive regulations**

**Substances of very high concern (SVHC) according to REACH, Article 57**

Substance is not listed.

**REACH - Pre-registered substances** Substance is not listed.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information:

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

01/29/2014