

## Safety Data Sheet

Version 3.10 Revised: 2016-05-02

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Citric Acid, Trisodium Dihydrate

Other means of identification

Product Code(s) A2328

Synonyms No information available

**Product Use** For Laboratory Research Use Only.

Supplier/Manufacturer

Biomatik Corporation 9-140 McGovern Dr.

Cambridge, Ontario N3H 4R7

Canada

Telephone Number 1-519-489-7195
E-mail Address info@biomatik.com

Emergency Telephone Number Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

#### Label elements

**Emergency Overview** 

Appearance White Physical State Powder Odor No information available

#### Hazards not otherwise classified (HNOC)

Not regulated

**Other Information** 

Unknown Acute Toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Sodium Citrate,	6132-04-3	-	95-100	Not applicable
Dihydrate				

#### 4. FIRST AID MEASURES

**First Aid Measures** 

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

## **Specific Hazards Arising from the Chemical**

Fine powder is capable of creating a dust explosion.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

**Personal protection** Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

## Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Handling Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Storage

**Incompatible Products** Bases. Reducing agents. Oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines** 

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Citrate, Dihydrate	-	-	-

#### Appropriate engineering controls

**Engineering Measures** Showers

> Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes. Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

### 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

**Physical State** Powder

**Appearance** White Odor No information available No information available Color **Odor Threshold** No information available

**Property Values** Remarks • Method No information available

Ha

Melting point/freezing point

**Boiling Point/Range** No information available Flash Point (High in °C) No information available **Evaporation Rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available Vapor pressure No information available **Vapor Density** No information available **Specific Gravity** No information available

72g/100g water **Water Solubility** 

Solubility in other solvents No information available Partition coefficient No information available **Autoignition Temperature** No information available

Decomposition TemperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

Other Information

Softening PointNo information availableMolecular WeightNo information availableVOC ContentNo information available

Density 1.7

Bulk Density No information available

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

## **Chemical Stability**

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

## **Conditions to Avoid**

Extremes of temperature and direct sunlight.

## **Incompatible Materials**

Bases. Reducing agents. Oxidizing agents.

#### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

**Inhalation** There is no data available for this product.

**Eye Contact** There is no data available for this product.

**Skin Contact** There is no data available for this product.

**Ingestion** There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Citrate, Dihydrate	-	-	-

## Information on toxicological effects

**Symptoms** No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Citrate, Dihydrate	-	-	-	-

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

No information available.
No information available.
No information available.

### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Sodium Citrate, Dihydrate	-	-	-

## Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Sodium Citrate, Dihydrate	-

## Other Adverse Effects No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Sodium Citrate, Dihydrate	-	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium Citrate, Dihydrate	-	-	-	-

Chemical Name	California Hazardous Waste Status
Sodium Citrate, Dihydrate	-

## 14. TRANSPORTINFORMATION

**<u>Not regulated</u> <u>IATA</u>**Not regulated

## 15. REGULATORY INFORMATION

#### International Inventories

**TSCA** Complies **DSL/NDSL** Does not comply **EINECS/ELINCS** Does not Comply **ENCS** Does not Comply **IECSC** Complies **KECL** Does not Comply **PICCS** Complies **AICS** Complies

## <u>Legend</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## U.S. Federal Regulations

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Sodium Citrate, Dihydrate	-

## SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

## Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Citrate, Dihydrate	-	-	-	-

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium Citrate, Dihydrate	-	-	-

## **U.S. State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65
Sodium Citrate, Dihydrate	-

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Citrate, Dihydrate	-	-	-

## **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not regulated

## **16. OTHER INFORMATION**

#### **Disclaimer**

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet** 

Page 7/7