SAFETY DATA SHEET
ZINC CITRATE (Zn 32.1%)
PRODUCT # ZINC-CIT-7820

1. IDENTIFICATION

GHS product identifier:	Zinc Citrate (Zn 32.1%)
Product code:	ZINC-CIT-7820
Product type:	Powder
Identified uses:	Ingredient for use in dietary supplements, food supplements and other nutrition products
Supplier's details:	Bella Corp Trading Pty Ltd 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: bellacorp@bellacorp.com.au
Emergency number:	NSW Poisons Information Centre: 131 126 (24 hours)

2. HAZARDS IDENTIFICATION

This section of the SDS applies when the product is used or handled above recommended amounts.

OSHA/HCS status:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture:	Not classified

GHS label elements

Signal word:	No signal word
Hazard statements:	No known significant effects or critical hazards

Precautionary statements

General:	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention:	Not applicable.
Response:	Not applicable.
Storage:	Not applicable.
Disposal:	Not applicable.
Hazards not otherwise classified:	None known.

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3. Composition/information on ingredients

Substance/mixture: Substance
Other means of identification: Not available

CAS number/other identifiers
Product code: ZINC-CIT-7820

Ingredient name	%	CAS number	Pure Substance Classification
Zinc citrate	60 - 100	546-46-3	Not classified

The exact percentage of the chemical has been withheld as a trade secret.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

This section of the SDS applies when the product is used or handled above recommended amounts.

Description of necessary first aid measures

Eye contact: In case of contact, immediately flush eyes with water for at least 15 minutes, preferably using an eyewash station. Remove any contact lens as soon as practical to do so. Get immediate medical attention if irritation occurs.

Inhalation: Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Skin contact: Wash with soap and water for at least 15 minutes. Get immediate medical attention if irritation develops.

Ingestion: Do NOT induce vomiting. Rinse mouth. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11).

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media:	None known.
Specific hazards arising from the chemical:	None known.
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters:	No special measures are required.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

This section of the SDS applies when the product is used or handled above recommended amounts.

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
Environmental precautions:	Not applicable.

Methods and materials for containment and cleaning up

Spill:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING & STORAGE

This section of the SDS applies when the product is used or handled above recommended amounts.

Precautions for safe handling

Protective measures:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene:	Normal good industrial hygiene.
Conditions for safe storage, including any incompatibilities:	Store in accordance with local regulations. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Proper personal protective equipment should be selected and worn when handling this product, as based on a risk assessment performed by a qualified person.

Control parameters

Occupational exposure limits: None.

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls: In some cases, dust collection, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety glasses with side-shields conforming to EN166 / ANSI Z87 additional eye/face protection may be appropriate.

Skin protection

Hand protection: Handle with gloves. Gloves must be inspected prior to use to ensure there are no holes or tears. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of gloves after use in accordance with applicable laws and good industry practices. Wash and dry hands.

Body protection: Wear appropriate clothing such as long sleeves and/or protective coveralls. The type of protective clothing must be selected according to the type, concentration and amount of the substance(s) at the specific workplace.

Other skin protection: Not required under normal conditions of use.

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type P100 (US) or type P3 (EU EN 143) respirator cartridges. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance

Physical state:	Solid (Powder)
Colour:	White to off-white
Odour:	Characteristic
Odour threshold:	Not available
pH:	Not available
Melting point:	Not available
Boiling point:	Not available
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not available
Lower and upper explosive (flammable) limits:	Not available
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Relative density:	Not available
Solubility:	Not available
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available

Decomposition temperature:	Not available
Viscosity:	Not applicable

10. STABILITY & REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:	There is no data available.
Irritation/Corrosion:	There is no data available.
Sensitisation:	There is no data available.
Carcinogenicity:	There is no data available.
Specific target organ toxicity (single exposure):	There is no data available.
Specific target organ toxicity (repeated exposure):	There is no data available.
Aspiration hazard:	There is no data available.

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact:	No known significant effects or critical hazards.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	No known significant effects or critical hazards.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate Effects:	No known significant effects or critical hazards.
Potential delayed effects:	No known significant effects or critical hazards.

Long term exposure

Potential immediate Effects:	No known significant effects or critical hazards.
Potential delayed effects:	No known significant effects or critical hazards.

Potential chronic health effects

General:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates: There is no data available.

12. ECOLOGICAL INFORMATION

Toxicity: There is no data available.

Persistence and degradability: There is no data available.

Bio-accumulative potential: There is no data available.

Mobility in soil
Soil/water partition coefficient (K_{OC}): Not available.

Other adverse effects: No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
UN proper shipping name	-		
Transport hazard class(es)	-		
Packing group	-		
Environmental hazards	No	No	No
Additional information	-		

AERG: Not applicable.

Special precautions for user: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

15. REGULATORY INFORMATION

U.S. Federal regulations: **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined.
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: Trizinc dicitrate

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304

Composition/information on ingredients: No products were found.

SARA 304 RQ: Not applicable

SARA 311/312

Classification: Not applicable

Composition/information on ingredients: No products were found.

SARA 313

	Product name	CAS number	%
Form R – Reporting requirements	Zinc citrate	546-46-3	60 - 100
Supplier notification	Zinc citrate	546-46-3	60 - 100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts None of the components are listed.

New York None of the components are listed.

New Jersey The following components are listed: Trizinc dicitrate.

Pennsylvania The following components are listed: Trizinc dicitrate.

California Prop. 65

Bulk product not labelled for Proposition 65 compliance.

International regulations

International lists:

Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Korea inventory: Not determined.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): Not determined.
Taiwan inventory (CSNN): All components are listed or exempted.

Chemical Weapons Convention List Schedule I Chemicals: Not listed

Chemical Weapons Convention List Schedule II Chemicals: Not listed

Chemical Weapons Convention List Schedule III Chemicals: Not listed

16. OTHER INFORMATION

History

Date of issue: 23 July 2019

Version: 1

Revised Section(s): Not applicable

Key to abbreviations:

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

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.

Review date: 23 July 2019