



Bella Corp
Trading Pty Ltd

Distributed by **Bella Corp Trading Pty Ltd** ABN: 32169140443
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SAFETY DATA SHEET

ZINC CITRATE 30%

PRODUCT# ZINC-CIT-7820

SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zinc Citrate.
Product Code: 7820.
CAS#: Not available.
RTECS: Not available.
TSCA: TSCA 8(b) inventory: Zinc oxide, citric acid.
CI#: Not available.
Synonym: Mixed organic salts/chelates of zinc oxide.
Chemical Name: Not available.
Chemical Formula: ZnO, C₁₂H₁₀O₁₄Zn₃X₂H₂O, C₆H₈O₇.

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SECTION II – HAZARDS IDENTIFICATION

Hazards:

Citric Acid: H319 – Causes serious eye irritation.
Zinc Oxide: H410 – Very toxic to aquatic life with long lasting effects.



Precautions:

Citric Acid: P280 – Wear eye protection.
P337+P313 – If eye irritation persists: Get medical advice/attention.
Zinc Oxide: P391 Collect spillage. P501 Dispose of container/contents to approved disposal site in accordance with all local and national regulations.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Citric Acid	LD50, Oral, Rat: 3,000 mg/kg	77-92-9	61.2%
Zinc Oxide	LD50, Oral, Mus 7,950 mg/kg	1314-13-2	38.8%



SECTION IV – FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.



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Skin Contact:	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases, and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Serious Skin Contact:	Wash with soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation:	Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.
Serious Inhalation:	Not available.
Ingestion:	Do NOT induce vomiting. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion:	Not available.

SECTION V – FIRE AND EXPLOSION DATA

Flammability of the Product:	May be combustible at high temperature.
Auto-Ignition Temperature:	Not available.
Flash Points:	Not available.
Flammable Limits:	Not available.
Products of Combustion:	Some metallic oxides. Risk of zinc metal-fume fever .
Fire Hazards in Presence of Various Substances:	Not available.
Explosion Hazards in Presence of Various Substances:	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.
Fire Fighting Media and Instructions:	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog, or foam. Do not use water jet.
Special Remarks on Fire Hazards:	Not available.
Special Remarks on Explosion Hazards:	Not available.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Small Spill:	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:	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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

SECTION VII – HANDLING AND STORAGE

Precautions:	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. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.
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Storage: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	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 limits.
Personal Protection:	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill:	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist BEFORE handling this product.
Exposure Limits:	TWA: 5. STEL: 10 (mg/m ³) from ACGIH (TLV) [United States] Inhalation TWA: 15 (mg/m ³) from OSHA (PEL) [United States] Inhalation Total. TWA: 5. STEL: 10. CEIL: 25 (mg/m ³) from NIOSH Inhalation TWA: 5. STEL: 10 (mg/m ³) from OSHA (PEL) [United States] Inhalation Respirable. Consult local authorities for acceptable exposure limits.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance:	Solid.
Odor:	Not available.
Taste:	Not available.
Molecular Weight:	N/A.
Color:	Not available.
pH (1% soln/water):	Not available.
Boiling Point:	Not available.
Melting Point:	Decomposes.
Critical Temperature:	Not available.
Specific Gravity:	Not available.
Vapor Pressure:	Not applicable.
Vapor Density:	Not available.
Volatility:	Not available.
Odor Threshold:	Not available.
Water/Oil Dist. Coeff.:	Not available.
Ionicity (in Water):	Not available.
Dispersion Properties:	Not available.
Solubility:	Not available.

SECTION X – STABILITY AND REACTIVITY

Stability:	The product is stable.
Instability Temperature:	Not available.



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Conditions of Instability:	Not available.
Incompatibility with Various Substances:	Not available.
Corrosivity:	Non-corrosive in presence of glass.
Special Remarks on Reactivity:	Not available.
Special Remarks on Corrosivity:	Not available.
Polymerization:	No.

SECTION XI – TOXICOLOGICAL INFORMATION

Routes of Entry:	Dermal contact. Inhalation. Ingestion.
Toxicity to Animals:	Acute oral toxicity (LD50): 7,950 mg/kg [Rat].
Chronic Effects on Humans:	MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.
Other Toxic Effects on Humans:	Hazardous in case of inhalation or excessive skin contact (irritant), hazardous in cases of ingestion of large quantities.
Special Remarks on Toxicity to Animals:	Not available.
Special Remarks on Chronic Effects on Humans:	May cause adverse reproductive effects based on animal data. No human data found at this time. May affect genetic material (mutagenic).
Special Remarks on other Toxic Effects on Humans:	
Acute Potential Health Effects:	May cause mild skin irritation.
Eyes:	May cause mechanical eye irritation and conjunctivitis.
Inhalation:	May cause mechanical irritation of the respiratory tract. Finely divided zinc product dust can potentially cause metal fume fever . Symptoms of metal fume fever may include a flu-like condition involving headache, chills, fever, sweats, nausea, vomiting, cough, muscle aches and pains, difficulty breathing, and pulmonary edema. May also affect the liver.
Ingestion:	May cause digestive tract irritation although zinc has a low toxicity by oral exposure route.
Chronic Potential Health Effects – Ingestion:	Prolonged or repeated ingestion of zinc may affect blood, metabolism, and the thyroid.

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity:	Not available.
BOD5 and COD:	Not available.
Products of Biodegradation:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation:	The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation:	Not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal:	Waste must be disposed of in accordance with federal, state, and local environmental control regulations.
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SECTION XIV – TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).
Identification: Not applicable.
Special Provisions for Transport: Not applicable.

	IATA	IIMO	RID/ADR
Shipping Name	N/A	N/A	N/A
Hazard Class	N/A	N/A	N/A
UN Number	N/A	N/A	N/A
Packing Group	N/A	N/A	N/A

Is Non-Hazardous and can be transported in passenger and cargo airline.

SECTION XV – OTHER REGULATORY INFORMATION

Federal and State Regulations: Illinois toxic substances disclosure to employee act: Zinc oxide. Rhode Island RTK hazardous substances: Zinc oxide. Pennsylvania RTK: Zinc oxide. Minnesota: Zinc oxide. Massachusetts RTK: Zinc oxide. New Jersey: Zinc oxide. California Director's List of Hazardous Substances: Zinc oxide. TSCA 8(b) inventory: Zinc oxide, citric acid.
(Reviewed, Confirmed).

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).
(Reviewed, Confirmed).

DSCL (EEC): R40 – Possible risks of irreversible effects. S2 – Keep out of the reach of children. S36/37 – Wear suitable protective clothing and gloves.

HMIS (USA): Health Hazard: 2
Fire Hazard: 1
Reactivity: 0
Personal Protection: 0

National Fire Protection Association (USA): Health: 2
Flammability: 1
Reactivity: 0
Specific Hazard:

Protective Equipment: Splash goggles. Appropriate air supply/ventilation as deemed necessary by organization's employee air quality monitoring program.
Gloves. Lab coat.

SECTION XVI – OTHER INFORMATION

References: Not available.
Other Special Considerations: Not available.
Created: 06/07/2018 11:03AM
Last Updated: Fri, Jun 9, 2018 3:29PM



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