



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: webcil@wbcil.com

Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

MSDS Name: Zinc Citrate

Product Code : ZCTUS31

Company Identification:

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Section 2 - Composition / Information on Ingredients

Chemical Name	:	Zinc Citrate Dihydrate USP
CAS Number	:	5990-32-9
Molecular Formula	:	$C_{12}H_{10}O_4Zn_3$
Molecular Weight	:	574.338 g/mol
Content	:	NLT 31.3% w/w (as Zinc)(On Dried Basis)

Section 3 - Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

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





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Section 4 - First Aid Measures

Inhalation	:	Move exposed person to fresh air. If not breathing, seek immediate medical attention. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel and seek medical attention.
Ingestion	:	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.
Skin Contact	:	Remove contaminated clothing and shoes and immediately flush skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation persists, seek medical attention.
Eye Contact	:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.

Section 5 - Fire-Fighting Measures

Flammability of the Product	:	May be combustible at high temperature.
Auto-Ignition Temperature:	:	Not available.
Flash Points	:	Not available.
Flammable Limits	:	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...). Some metallic oxides.
Products of Combustion	:	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
Fire Hazards in Presence of Various Substances	:	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.
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	:	Fire is possible at elevated temperatures.
Special Remarks on Explosion Hazards	:	Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.





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Section 6 - Accidental Release Measures

SPILL CONTROL & RECOVERY	:	Wear appropriate personal protective equipment as specified in Section 8. Clean up spills in a manner that does not disperse dust into the air. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container
DISPOSAL	:	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 7 - Handling and Storage

HANDLING	:	Avoid contact with eyes. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
STORAGE	:	Store in accordance with local regulations. Store in original container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use.





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Section 8 - 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 limit.
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	:	Not available.

Section 9 - Physical and Chemical Properties

Appearance Form:-		
pH (of 3% w/v aqueous suspension)	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Sublimation Temperature:	:	No data available
Other safety information No data available		





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Section 10 - Stability and Reactivity

Stability	:	The product is stable at normal conditions.
Instability Temperature	:	Not available.
Conditions of Instability	:	Excess heat, excess dust generation, incompatible materials
Incompatibility with various substances	:	Reactive with acids.
Corrosivity	:	Not available.
Special Remarks on reactivity	:	Incompatible with strong mineral acids, and strong organic acids.
Special Remarks on Corrosivity	:	Not available.
Polymerization	:	Will not occur

Section 11 - Toxicological Information

RTECS Reference	:	No data available
Target Organs:	:	No data available
Toxicity Data:	:	No data available
Skin corrosion/irritation:	:	No data available
Serious eye damage/irritation:	:	No data available
Carcinogenicity:	:	No data available

Section 12 - Ecological Information

Ecotoxicity	:	No data available
BOD5 and COD	:	No data 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 product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	:	No data available

Section 13 - Disposal Considerations

Disposal methods:

Refer to local government authority for disposal recommendation.





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Section 14 - Transport Information

DOT Classification : Not a DOT controlled material
Air transport Goods : Nonhazardous/non dangerous as per IATA DGR.
Special Provision for Transport : Not applicable
IATA Specification : Non-dangerous, non-hazardous

DOT (Pictograms)

AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND NON-RESTRICTED.

NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED.

THIS IS NOT REGULATED AS PER IATA REGULATION



Section 15 - Regulatory Information

Federal and State Regulations:

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. SARA 313 toxic chemical notification and release reporting: Zinc compounds.

Other Regulations: Not available.

Other Classifications:

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

DSCL (EEC):

This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

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

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Safety glasses.





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Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

Issue Date: April, 2023

Revision Date: March, 2025

Revision No. : 03

