



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 Bis Glycinate

Product Code: ZBG2529

Company Identification:

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Section 2 - Composition / Information on Ingredients

Chemical Name	:	Zinc Bis Glycinate
CAS Number	:	14281-83-5
Molecular Formula	:	C ₄ H ₈ N ₂ O ₄ Zn
Molecular Weight	:	213.51 g/mol
Content	:	25%- 29% w/w (as Zinc)

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.

*** the extent of the eye irritation can be classified as "extremely irritating". Category 1**

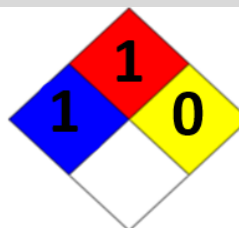
H302 Harmful if swallowed. Precautionary statement(s) Prevention

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P264 Wash all exposed external body areas thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.



NFPA SCALE (0-4)





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Section 3 - Hazards Identification

Precautionary statement(s) Response
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/physician/first aider.
P391 Collect spillage.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
P330 Rinse mouth.
Precautionary statement(s) Storage
Not Applicable
Precautionary statement(s) Disposal
P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

Health	1
Flammability	1
Physical Hazard	0
Personal protection	E

HMIS RATINGS (0-4)

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.





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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.

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.





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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.

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	:	
Form	:	Free flowing powder, hygroscopic in nature.
Color	:	White to off
Odour	:	No data available
pH	:	5.0 – 7.5
Melting point/freezing point	:	at 101 325 Pa
Initial boiling point and boiling range	:	No data available
Sublimation Temperature:	:	No data available
Density:	:	851 g/L





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Vapour pressure	:	No data available
Partition coefficient	:	3.21
Vapour density	:	No data available
Refractive Index	:	No data available
Water solubility	:	< 3.28 mg/L
Decomposition temperature	:	248 °C
Viscosity	:	No data available
Other safety information		
No data available		

Section 10 - Stability and Reactivity

Stability	:	The product is stable.
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 Organ Toxicity (Repeated Exposure)	:	No specific target organ toxicity identified from chronic exposure
Toxicity Data:	:	No data available
Skin corrosion/irritation:	:	No data available
Serious eye damage/irritation:	:	Causes severe irritation. Symptoms include redness, watering, and pain.
Carcinogenicity, Mutagenicity,	:	No evidence of significant carcinogenic, mutagenic, or





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Teratogenicity	:	teratogenic effects.
Oral LD50 Combined [males/females]	:	>300 and <2000 mg/kg bw (95% C.I. 864.4–4210 mg/kg)
Oral Acute Toxicity (LD50)	:	500 mg/kg in rats (estimate) indicates moderate toxicity when ingested
Inhalation	:	No significant acute effects. Prolonged inhalation of dust may lead to respiratory irritation.

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
Aquatic Toxicity	:	Fish (<i>Oncorhynchus mykiss</i>): LC50 = 0.41–0.59 mg/L (96h) <ul style="list-style-type: none">○ Daphnia magna: EC50 = 0.139–0.908 mg/L (48h)○ Algae (<i>Pseudokirchneriella subcapitata</i>): EC50 = 0.09–0.271 mg/L (72–96h)○ highly toxic to aquatic organisms even at low concentrations Persistence: Potential for bioaccumulation in microorganisms Mobility in Soil: Limited due to low water solubility





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Section 13 - Disposal Considerations

Disposal methods:

Refer to local government authority for disposal recommendation.

Section 14 - Transport Information

DOT (Pictograms)

DOT Classification	:	Not a DOT controlled material.
Identification	:	Not applicable.
Special Provision for Transport	:	Not applicable.



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





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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.

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.

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