

SECTION-1: Identification of the substance / mixture and the company / undertaking

Catalogue Number	CS-DV-03802
Product Name	Zinc Cyanide
CAS No.	557-21-1
Category	Fine Chemicals
Synonyms	Zinc dicyanide; Zinccyanide; Zn(CN) ₂
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email sales@clearsynth.com for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Not available

2.2 Label Elements

Signal Word: Not available

Not available

Hazard Statement(s)

Code	Statement
Not available	Not available

Precautionary Statement(s)

Code	Statement
Not available	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Zinc Cyanide
CAS Number : 557-21-1
Molecular Formula : C₂N₂Zn
Molecular Weight : 117.41
Parent Chemical : .
Synonyms : Zinc dicyanide; Zinccyanide; Zn(CN)₂
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures

General advice: Cyanide-containing material. Seek immediate medical attention. Show this SDS to the physician.

Inhalation: Move person to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should administer oxygen. If not breathing, provide artificial respiration by trained personnel. Get immediate medical attention.

Skin contact: Remove contaminated clothing and shoes. Rinse skin with plenty of water and wash with soap. Get immediate medical attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get immediate medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects: Not available. Cyanide exposure may cause severe systemic toxicity.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat as cyanide exposure. Specific treatment information: Not available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Fire hazard: Not available.

Hazardous combustion products: May release toxic fumes; may include hydrogen cyanide and metal oxides. Exact decomposition products: Not available.

5.3 Advice for firefighters

Protective equipment: Self-contained breathing apparatus (SCBA) and full protective gear.

Special precautions: Avoid inhalation of fumes. Prevent fire-fighting water from entering drains or waterways.

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

Evacuate unnecessary personnel. Avoid breathing dust. Avoid contact with skin and eyes. Use appropriate personal protective equipment.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow product to enter drains, surface water, or soil.

6.3 Methods and material for containment and cleaning up

Avoid generating dust. Collect spilled material using non-sparking tools and place in a suitable, tightly closed container for disposal. Clean contaminated area with care. Do not flush to sewer.

6.4 Reference to other sections

See Section 8 for personal protective equipment and Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust and aerosols. Do not breathe dust. Avoid contact with skin, eyes, and clothing. Use only with adequate ventilation (local exhaust recommended). Do not eat, drink, or smoke when using this product. Wash thoroughly after handling.

Incompatibilities/avoid: Avoid contact with acids and moisture; cyanide salts may generate hydrogen cyanide under acidic conditions.

7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container in a cool, dry, well-ventilated place. Keep container securely sealed. Store away from acids and incompatible materials. Protect from moisture.

7.3 Specific end use(s)

Not available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits: Not available.

Biological limit values: Not available.

8.2 Exposure controls

Engineering controls: Use local exhaust ventilation or other engineering controls to keep airborne levels below applicable limits (if established). Provide eyewash station and safety shower.

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Chemical-resistant gloves; protective clothing as appropriate.
- Respiratory protection: If dust or aerosols are generated or ventilation is inadequate, use a properly fitted respirator suitable for particulates and toxic gases as appropriate. Specific respirator type: Not available.
- Hygiene measures: Wash hands and exposed skin after handling. Remove contaminated clothing and wash before reuse.

Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

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10.1 Reactivity

Not available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Not available.

10.4 Conditions to avoid

Moisture, heat, and incompatible materials. Avoid dust generation.

10.5 Incompatible materials

Acids (may liberate hydrogen cyanide). Other incompatibilities: Not available.

10.6 Hazardous decomposition products

Toxic fumes; may include hydrogen cyanide and metal oxides. Additional information: Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: No data available.
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: No data available.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure

- No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- Not available.

SECTION 12: Ecological information

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12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

Not available.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

Product: Dispose of contents/container in accordance with local/regional/national/international regulations.

Cyanide-containing waste requires specialized handling and treatment. Do not discharge to drains.

Contaminated packaging: Dispose of as hazardous waste in accordance with applicable regulations.

SECTION 14: Transport information

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14.1 UN number

Not available.

14.2 UN proper shipping name

Not available.

14.3 Transport hazard class(es)

Not available.

14.4 Packing group

Not available.

14.5 Environmental hazards

Not available.

14.6 Special precautions for user

Not available.

14.7 Maritime transport in bulk according to IMO instruments

Not available.

SECTION 15: Regulatory information

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not available.

15.2 Chemical safety assessment

Not available.

SECTION 16: Other information

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Product name: Zinc Cyanide

CAS No.: 557-21-1

Synonyms: Zinc dicyanide; Zinccyanide; $Zn(CN)_2$

Catalog No.: CS-DV-03802

Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

Revision date: Not available

Disclaimer: The information provided is believed to be accurate but is not guaranteed. It is intended for guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not considered a warranty or quality specification.

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