

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

Catalogue Number	CS-T-50533
Product Name	Chlordane
CAS No.	12789-03-6
Category	Pesticide Standards
Synonyms	Not available
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:

Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

Code	Statement
H302+H312	Harmful if swallowed. Harmful in contact with skin.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H351	Not available

H400	Not available
H410	Not available

Precautionary Statement(s)

Code	Statement
P203	Not available
P264	Wash hands thoroughly after handling.
P270	Not available
P273	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P317	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P317	Not available
P318	Not available
P321	Specific treatment (see ... on this label).
P330	Not available
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Chlordane

CAS Number : 12789-03-6

Molecular Formula : C₁₀H₆Cl₈

Molecular Weight : 409.7

Parent Chemical : -

Synonyms : Not available

Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures

General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms occur or persist.

Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.

Skin contact: Wash with plenty of soap and water. Seek medical attention if irritation or symptoms develop.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing. Seek medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Seek medical attention.

4.2 Most important symptoms/effects, acute and delayed

Not available.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically. No data available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire conditions (e.g., water spray, dry chemical, foam, carbon dioxide).

5.2 Special hazards arising from the substance or mixture

May produce hazardous decomposition products under fire conditions. Specific decomposition products: Not available.

5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) and full protective gear. Avoid inhalation of smoke and vapors.

Cool containers with water spray if exposed to fire.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/vapors. Avoid contact with skin and eyes. Use appropriate personal protective equipment.

Ensure adequate ventilation.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid release to the environment. Prevent entry into drains, surface waters, and soil.

6.3 Methods and material for containment and cleaning up

Contain spill. Collect spilled material using inert absorbent and place in a suitable, labeled waste container for disposal. Clean contaminated area. Dispose of waste in accordance with local/regional/national regulations.

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 breathing dust/vapors. Avoid contact with skin, eyes, and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container in a cool, dry, well-ventilated place. Protect from heat and sources of ignition. Keep away from incompatible materials. Incompatible materials: Not available.

7.3 Specific end use(s)

Pesticide standard / laboratory use. Not for food, drug, or household use.

SECTION 8: Exposure controls / personal protection

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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 general ventilation to minimize exposure.

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Wear protective gloves and protective clothing suitable for chemical handling.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection in accordance with applicable standards and risk assessment.
- Hygiene measures: Wash hands after handling. Remove contaminated clothing and wash before reuse.

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

Property	Value
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

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, flames, sparks, and other ignition sources. Other conditions: Not available.

10.5 Incompatible materials

Not available.

10.6 Hazardous decomposition products

Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: LD50: 200 mg/kg (Oral, Rat) (T13) LD50: 343 mg/kg (Intraperitoneal, Rat) (T13) LD50: 10 mg/kg (Intravenous, Mouse) (T14) LD50: 780 mg/kg (Dermal, Rat) (T14) LC50: 100 mg/m³ over 4 hours (Inhalation, Cat) (T14)
- 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: Chlordane is believed to bind irreversibly to DNA, leading to cell death or altered cellular function. It also affects transcription by antagonizing estrogen-related receptors. Chlordane induces hepatic cytochrome P-450, causing a large increase in the volume of the smooth endoplasmic reticulum, which results in hepatocellular enlargement and hypertrophy. Chlordane has also been shown to bind and activate retinoic acid receptor, causing various developmental defects, and inhibit alkaline phosphatases in hepatic and renal tissues. (L91, A52, A53, A68, A69) Chlordane is a central nervous system stimulant, and can also damage the digestive system and the liver. Large doses have been known to cause convulsions, respiratory failure, and death. Chlordane is also known to have adverse reproductive and developmental effects. (L91)
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure

- Ingestion and inhalation of chlordane cause headaches, irritability, confusion, weakness, vision problems, vomiting, stomach cramps, diarrhea, and jaundice. (L91)

Symptoms related to the physical, chemical and toxicological characteristics

- Chlordane is a central nervous system stimulant, and can also damage the digestive system and the liver. Large doses have been known to cause convulsions, respiratory failure, and death. Chlordane is also known to have adverse reproductive and developmental effects. (L91)

SECTION 12: Ecological information

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12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations. Do not discharge to drains or the environment. Incineration or disposal via a licensed waste contractor may be appropriate. Waste code: Not available.

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

No data available.

SECTION 16: Other information

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Molecular weight: 409.7

Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

Disclaimer: The information provided is believed to be accurate based on available data, but no warranty is expressed or implied. Users must determine suitability for their particular purpose and comply with applicable laws and regulations.

Revision date: Not available.

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