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

Catalogue Number	CS-T-41325
Product Name	Quinclorac
CAS No.	84087-01-4
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:

Not available

2.2 Label Elements

Signal Word: Warning

Not available

Hazard Statement(s)

Code	Statement
H317	May cause an allergic skin reaction.
H402	Not available
H412	Not available

Precautionary Statement(s)

Code	Statement
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

P272	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P321	Specific treatment (see … on this label).
P333+P317	Not available
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio
P273	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Quinclorac
CAS Number : 84087-01-4
Molecular Formula : -
Molecular Weight : -
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 persist or develop. Show this SDS to medical personnel.
- 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. Get medical attention if irritation occurs.
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
- Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed
- Not available.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically. No data available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
- Suitable extinguishing media: Use extinguishing measures appropriate to surrounding fire (e.g., water spray, alcohol-resistant foam, dry chemical, carbon dioxide).
- Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture
- Hazardous combustion products: Not available.

5.3 Advice for firefighters
- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Avoid inhalation of combustion products.
- Cool containers with water spray if exposed to fire.
- Prevent fire-fighting water from entering drains or waterways.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Evacuate unnecessary personnel.
- Avoid breathing dust and avoid contact with skin and eyes.
- Use appropriate personal protective equipment (see Section 8).
- Ensure adequate ventilation.

6.2 Environmental precautions
- Avoid release to the environment.
- Prevent entry into drains, surface water, and soil.

6.3 Methods and material for containment and cleaning up
- Avoid generating dust.
- Collect spilled material using suitable methods (e.g., sweep carefully or use HEPA-filtered vacuum).
- Place in a suitable, labeled container for disposal.
- Clean spill area with water and detergent as appropriate.

6.4 Reference to other sections
- See Section 8 for exposure controls/personal protection 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.
- Avoid contact with skin, eyes, and clothing.
- Do not breathe dust.
- Use with adequate ventilation.
- Wash hands thoroughly after handling.
- Do not eat, drink, or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)
- Pesticide standard / laboratory use. No further information 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: Provide adequate ventilation. Use local exhaust where dust may be generated.
- Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves. Protective clothing as appropriate.
- Respiratory protection: If ventilation is inadequate or dust is generated, use a suitable particulate respirator per applicable standards.
- Hygiene measures: Wash hands after handling. Remove contaminated clothing and wash before reuse.
- Environmental exposure controls: Avoid release to the environment; prevent discharge to drains.

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

Property	Value
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

SECTION 10: Stability and reactivity

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
- Avoid dust formation. Avoid heat and moisture. No further data 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: HUMAN STUDIES: It induced chromosomal aberrations in cultured human lymphocytes. ANIMAL STUDIES: Quinclorac was fed to groups of Beagle dogs in the diet at a dose of 0, 1,000, 3,000, 9,000 or 27,000 ppm for 28 days. At 27,000 ppm, feed consumption was reduced in females, and there was body weight loss over the duration of the study in both sexes. Kidney lesions were present at the top dose level. In mice Quinclorac was

administered in a diet, at dose levels of 0, 4,000, 8,000, or 16,000 ppm. At 8000 and 16000 ppm there was an increase in water intake in males and females and blood urea nitrogen in males. There was decreased kidney weight in males and females and relative kidney weight in males in the 16,000 ppm group. At 4000 ppm there was decreased body weight gain in males and females. In rats given Quinclorac at dose levels of 0, 1,000, 4,000, or 12,000 ppm in a diet, noted decreases in body weight gain, food consumption and an increase in water intake in males and females, and decrease in monocytes in female, increases in liver enzymes in males, and pathological changes in kidneys of males.
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: It produced no sensitization reactions in a guinea-pig maximization test.
- Germ cell mutagenicity: It induced chromosomal aberrations in cultured human lymphocytes. Bacterial reverse gene mutation test was negative with or without metabolic activation in Salmonella typhimurium strains TA98, TA100, TA1535, TA1537. Human lymphocytes (whole blood) treated with Quinclorac showed a treatment-related increase in the incidence of chromosomal aberrations in non-activated cultures; the highest treatment level examined in activated samples demonstrated an increase in the incidence of aberrant chromosomes with gaps; there was a treatment-related reduction in the mitotic index indicative of increasing cytotoxicity; the chromosomal aberrations may have been a secondary consequence of the cytotoxicity. Possible adverse effect indicated: increased incidence of chromosomal aberrations.
- Carcinogenicity: Quinclorac did not induce tumors in mice, rats or dogs.
- Reproductive toxicity: In rabbits the developmental toxicity observed at 600 mg/kg/day consisted of increased rate of resorption and post-implantation loss, a decrease in the number of live fetuses, and reduced fetal body weight. No structural anomalies were observed in rats in a 2-generation reproduction study.
- STOT-single exposure: No data available.
- STOT-repeated exposure: Quinclorac (purity 98.29%) was applied to the shaved skin of groups of New Zealand White rabbits at 40 or 200 mg/kg bw per day (five of each sex) or 0 or 1000 mg/kg bw per day (10 of each sex) for 6 hours/day, 7 days/week, for 21 applications. There were no deaths or clinical signs of toxicity. Animals of the high-dose group showed partly yellowish discolored skin, which was attributed to the color of the applied test material. A significant increase in absolute kidney weight in top-dose males was related to the higher body weight in this group. A dose-related reduction in uric acid was seen in males, but is not considered adverse. No other treatment-related effects were noted during the entire study period. The NOAEL was 1000 mg/kg bw per day, the highest dose tested.
- Aspiration hazard: No data available.

Likely routes of exposure
- No data available.

Symptoms related to the physical, chemical and toxicological characteristics
- Quinclorac produced transient, mild conjunctival effects (scores 0-2) when tested in rabbits.

SECTION 12: Ecological information

SECTION 12: Ecological information

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

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.
- Product residues and spill cleanup materials should be disposed of as hazardous waste unless regulations indicate otherwise.
- Empty containers may retain product residues; handle accordingly.
- Waste code: Not available.

SECTION 14: Transport information

SECTION 14: Transport information

- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.
- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Not available.
- Transport in bulk according to IMO instruments: Not available.

Note: Transport classification may vary by mode (ADR/RID, IMDG, IATA) and packaging; verify with current regulations and shipping documents.

SECTION 15: Regulatory information

SECTION 15: Regulatory information

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

SECTION 16: Other information

- Product name: Quinclorac
- Catalog No.: CS-T-41325
- CAS No.: 84087-01-4
- Category: Pesticide Standards
- 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 are responsible for determining suitability for their particular application and for compliance with applicable laws and regulations.
- Revision date: Not available.

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