

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

Catalogue Number	CS-T-79291
Product Name	(22RS,23RS)-28-Homo Brassinolide
CAS No.	74174-44-0
Category	Pesticide Standards
Synonyms	Brassinolide-ethyl; Homobrassinolide; [1R-[1a(1S*,4S*),3aβ,3ba,6aβ,8β,9β,10aa,10bβ,12aa]]-[partial]-1-(4-ethyl-2,3-dihydroxy-1,5-dimethylhexyl)hexadecahydro-8,9-dihydroxy-10a,12a-dimethyl-6H-benz[c]indeno[5,4-e]oxepin-6-one;
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 : (22RS,23RS)-28-Homo Brassinolide

CAS Number : 74174-44-0

Molecular Formula : C₂₉H₅₀O₆

Molecular Weight : 494.7

Parent Chemical : Not available

Synonyms : Brassinolide-ethyl; Homobrassinolide; [1R-[1a(1S*,4S*),3aβ,3ba,6aβ,8β,9β,10aa,10bβ,12aa]]-[partial]-1-(4-ethyl-2,3-dihydroxy-1,5-dimethylhexyl)hexadecahydro-8,9-dihydroxy-10a,12a-dimethyl-6H-benz[c]indeno[5,4-e]oxepin-6-one;

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. Wash contaminated clothing before reuse.
- Seek medical attention if symptoms persist or if you feel unwell.

Inhalation:

- Move person to fresh air and keep at rest in a position comfortable for breathing.
- If breathing is difficult, seek medical attention.

Skin contact:

- Wash with plenty of soap and water.
- Get medical attention if irritation develops or persists.

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.
- Never give anything by mouth to an unconscious person.
- Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- No data 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:

- Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable extinguishing media:

- No data available.

5.2 Special hazards arising from the substance or mixture

- Combustion may produce carbon oxides and other hazardous decomposition products.
- No data available.

5.3 Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Use water spray to cool unopened containers.
- Avoid inhalation of smoke, fumes, or decomposition products.

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

- Avoid breathing dust/vapors.
- 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 further leakage or spillage if safe to do so.
- Do not allow to enter drains, surface water, or soil.

6.3 Methods and material for containment and cleaning up

- For small spills: Carefully sweep or scoop up without generating dust; place in a suitable, closed container for disposal.
- For large spills: Contain spill; collect using non-sparking tools and place in suitable containers.
- Clean spill area with appropriate methods while preventing runoff.

6.4 Reference to other sections

- See Section 8 for personal protective equipment.
- See 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.
- Avoid contact with skin, eyes, and clothing.
- Do not breathe dust/vapors.
- Wash hands thoroughly after handling.

- Keep away from food, drink, and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

- Store in tightly closed container.
- Store in a cool, dry, well-ventilated place.
- Protect from moisture.
- Keep container tightly sealed when not in use.
- Incompatible materials: No data available.

7.3 Specific end use(s)

- Pesticide standard / laboratory use.
- No data available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

- No data available.

8.2 Exposure controls

Engineering controls:

- Use with adequate ventilation.
- Use local exhaust ventilation where dust or aerosols may be generated.

Personal protective equipment (PPE):

Eye/face protection:

- Safety glasses with side shields or chemical splash goggles.

Skin protection:

- Protective gloves (material not specified).
- Lab coat or protective clothing.

Respiratory protection:

- If ventilation is inadequate or dust/aerosols are generated, use a suitable particulate respirator.

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

Test	Result
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

- 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

- Excessive heat.
- Incompatible materials.
- No data available.

10.5 Incompatible materials

- No data available.

10.6 Hazardous decomposition products

- Carbon oxides.
- No data 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

- 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

- No data available.

12.6 Endocrine disrupting properties

- No data available.

12.7 Other adverse effects

- No data 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.
- Do not discharge to drains or the environment.

Contaminated packaging:

- Dispose of as unused product in accordance with applicable regulations.

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

- No data available.

National/Regional inventories and regulations:

- Not available.

SECTION 16: Other information

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- Intended use: Pesticide standard / laboratory use

Supplier:

- Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

Revision information:

- Prepared based on available product identification information; hazard and regulatory classifications: No data available.

Disclaimer:

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