

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

Catalogue Number	CS-AZ-00166
Product Name	Etridiazole
CAS No.	2593-15-9
Category	Pesticide Standards
Synonyms	5-ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole
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	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H351	Not available
H400	Not available

H410	Not available
H312	Harmful in contact with skin.
H330	Not available
H331	Not available
H316	Not available
H371	Not available
H373	Not available

Precautionary Statement(s)

Code	Statement
P203	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Not available
P272	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.
P318	Not available
P321	Specific treatment (see ... on this label).
P330	Not available
P333+P317	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
P260	Not available
P271	Use only outdoors or in a well-ventilated area.
P284	Not available

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P316	Not available
P317	Not available
P320	Not available
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P308+P316	Not available
P319	Get medical help if you feel unwell.
P332+P317	If skin irritation occurs: Get medical help.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Etridiazole

CAS Number : 2593-15-9

Molecular Formula : -

Molecular Weight : -

Parent Chemical : -

Synonyms : 5-ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole

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 if you feel unwell.

Inhalation: Move person to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice/attention if symptoms occur.

Skin contact: Wash with plenty of soap and water. Get medical advice/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. Get medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Get medical advice/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: Water spray, alcohol-resistant foam, dry chemical, carbon dioxide.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

May decompose under fire conditions to release hazardous gases/vapors. Specific decomposition products: Not available.

5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) and full protective gear. Use water spray to cool unopened containers. 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

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

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

Contain spill. Collect spilled material using methods that minimize dust generation. Place in a suitable, labeled container for disposal. Clean contaminated area with water and detergent as appropriate. Dispose of waste in accordance with local 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. Do not eat, drink, or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

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

Biological limit values: Not available.

8.2 Exposure controls

Engineering controls: Use local exhaust ventilation or general ventilation to maintain exposure below applicable limits (if established).

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
 - Skin protection: Protective gloves (material not available). Wear protective clothing as appropriate.
 - Respiratory protection: If ventilation is inadequate or dust/vapor is generated, use a suitable respirator (type not available).
 - Hygiene measures: Wash hands after handling. Remove and wash contaminated clothing 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

Property	Value
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, ignition sources. Other conditions to avoid: 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: LC50 (rat) = 5,700 mg/m³/4h /LABORATORY ANIMALS: Acute Exposure/ Male albino Swiss mice were given 2.0 or 0.25 mmol/kg of terrazole in oil (ip) or were given 100 mg/kg terrazole in oil (ip) followed by 50 mg/kg pentobarbital sodium (ip) 24 hr later. Controls were given no drug or pentobarbital alone. Administration of 100 mg/kg terrazole significantly prolonged the sleeping time observed after pentobarbital administration. The terrazole-induced effect lasted for at least 4 days, indicating that the pesticide inhibited the hepatic drug metabolizing enzyme (DME) system. The activities of benzphetamine demethylase and aniline hydroxylase in the liver microsomes were inhibited by 2 mmoles/kg terrazole and there was a concomitant loss of cytochrome P-450. Terrazole appears to require metabolism for its liver toxicity and it is likely that a terrazole metabolite(s) might be causing hepatotoxicity by initiating destructive lipid peroxidation of the microsomal membranes. The trichloromethyl moiety of terrazole may undergo metabolic alteration by the hepatic DME system and the product thus formed may be responsible for the observed liver toxicity.
- Skin corrosion/irritation: No data available.

- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: /GENOTOXICITY/ Terrazole was mutagenic for Salmonella typhimurium strain TA100, and its mutagenic ability was not changed in presence of liver microsomal fraction.
- Carcinogenicity: Cancer Classification: Group B2 Probable Human Carcinogen
- Reproductive toxicity: /LABORATORY ANIMALS: Developmental or Reproductive Toxicity/ In a 3 generation reproduction study, rats fed diets containing 0, 10, 80 and 640 ppm. No adverse effects were apparent on fertility, gestation, viability, lactation, number of stillborn and litter size. At 640 ppm there was decr wt gain in offsprings and parents. /BIRDS and MAMMALS/ In a chronic toxicity study in mallards, significant reproductive effects including reduced numbers of eggs laid, viable embryos, normal hatchlings and 14-day survivors were observed. A chronic toxicity study in bobwhite quail yielded similar results. It is uncertain whether these reproductive effects are indicative of an endocrine-mediated mode of action.
- STOT-single exposure: No data available.
- STOT-repeated exposure: /LABORATORY ANIMALS: Subchronic or Prechronic Exposure/ Terrazole added to dog diets at level of 0, 100, 400 and 1600 ppm (subchronic study), and 0, 10, 100, and 1000 ppm (chronic study). In dogs fed 3 months, decrease spleen-to-body wt ratios at all levels. At 1600 ppm diet liver wt increase observed. In dogs receiving 1000 ppm diet: decrease wt gain, increase serum alkaline phosphatase, SGOT, serum cholinesterase, liver wt gains, cholestasis with secondary bile nephrosis. No adverse effects observed at 10 or 100 ppm. /LABORATORY ANIMALS: Subchronic or Prechronic Exposure/ Three month feeding test in rats resulted in growth inhibition at 1250 ppm and increase in liver to bw ratios at 625 and 1250 ppm.
- Aspiration hazard: No data available.

Likely routes of exposure

- LC50 Rat inhalation 5.7 mg/l/4 hr

Symptoms related to the physical, chemical and toxicological characteristics

- /LABORATORY ANIMALS: Subchronic or Prechronic Exposure/ Terrazole added to dog diets at level of 0, 100, 400 and 1600 ppm (subchronic study), and 0, 10, 100, and 1000 ppm (chronic study). In dogs fed 3 months, decrease spleen-to-body wt ratios at all levels. At 1600 ppm diet liver wt increase observed. In dogs receiving 1000 ppm diet: decrease wt gain, increase serum alkaline phosphatase, SGOT, serum cholinesterase, liver wt gains, cholestasis with secondary bile nephrosis. No adverse effects observed at 10 or 100 ppm.

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

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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.

Waste codes: Not available.

Contaminated packaging: Dispose of as unused product or according to local 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

No data available.

SECTION 16: Other information

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Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

Disclaimer: The information provided is believed to be accurate based on available data; however, no warranty is expressed or implied. Users are responsible for determining suitability for their particular application and for complying with applicable laws and regulations.

Revision date: Not available.

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