## 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.<br>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 regulatio |
| 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

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
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, cholestatsis 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, cholestatsis with secondary bile nephrosis. No adverse effects observed at 10 or 100 ppm.

## SECTION 12: Ecological information

SECTION 12: Ecological information

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.
Waste codes: Not available.
Contaminated packaging: Dispose of as unused product or according to local regulations.

## SECTION 14: Transport information

SECTION 14: Transport information

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

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
No data available.

## SECTION 16: Other information

SECTION 16: Other information

Product name: Etridiazole
CAS No.: 2593-15-9
Synonyms: 5-ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole
Supplier: Clearsynth Labs Ltd., Mumbai, India
Emergency phone: +91-22-245045900

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Revision date: Not available.

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