



Material Safety Data Sheet

Uniroyal Chemical

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MSDS No. A393002

Date Issued: 10/15/85

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NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

IDENTIFICATION

Trade Name: TERRAZOLE® 35% WP

CAS Number: 2593-15-9 (active)

Chemical Name:

Chemical Family: Thiadiazole

5-ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole 35%
Inerts: 65%
Common Name: Etridiazole

SPECIAL REGULATORY HAZARDS

| <u>Ingredient</u> | <u>CAS No.</u> | <u>Exposure Limit</u> | <u>OSHA (1910.1200)</u> | <u>EEC*</u> |
|-------------------|----------------|-----------------------|--|--|
| Product | Mixture | ND | None | None |
| Etridiazole | 2593-15-9 | ND | Target organ effects Carcinogen Sensitizer | Possible risk of irreversible effects Sensitizer |

Hazard assessment based on available data.

Transportation: IMO Hazard Class: 9, Miscellaneous; ID No. UN3077 Marine Pollutant
DOT/IATA/ICAO: Not Regulated

PHYSICAL DATA

Appearance and Odor: Light gray powder; musty odor

Solubility: Dispersible in water; active
soluble in organic solvents

Specific Gravity (H₂O=1): ND

Vapor Pressure @ 20°C: ND

Melting Point: ND

Vapor Density (Air = 1): ND

Boiling Point: NA

Volatility @ 70°F: Low

Other Data: pH: 8.0; Density: 1.98 grams/cm³

FIRE AND EXPLOSION HAZARD DATA

Flash Point: >230°F

Autoignition Temperature: 355° C (670° F)

Extinguishing Media: Water spray, dry chemical.

Flammable Limits: ND

Special Fire Fighting Procedures: Protect against inhalation of combustion products. Contain run-off.

Unusual Hazards: May form explosive dust-air mixtures.

REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.

Incompatibility: Strong oxidizing agents.

Decomposition Products: Hydrogen chloride, oxides of sulfur and nitrogen under burning conditions.

NA = Not Applicable

ND = Not Determined

* European Economic Community

Crompton makes no representation or warranty with respect to the information in this Material Safety Data Sheet. The information is however, as of this date provided, true and accurate to the best of Crompton's knowledge. This list of information is not intended to be all inclusive. Actual conditions of use and handling may require considerations of information other than, or in addition to, that which is provided herein.

SAP#501075

SPECIAL PROTECTION INFORMATION

Engineering Controls: Sufficient ventilation to minimize dust exposure. Protect closed dust handling systems against possible dust explosions. Avoid dust accumulations on building or equipment surfaces.

Personal Protection Equipment: Avoid all personal contact. Observe good personal hygiene. Chemical resistant gloves, protective clothing and eye protection should be worn when handling. Launder clothing before reuse. In the absence of adequate ventilation, use NIOSH-certified respiratory protection.

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

STORAGE, SPILLS AND DISPOSAL INFORMATION

Storage: Do not contaminate water, food or feed by storage or disposal.

Spills: Vacuum up to avoid creating dust. Transfer into secure containers for proper disposal. Use personal protective equipment as outlined above.

Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved wastes disposal facility.

Environmental Information:

ETRIDIAZOLE TECHNICAL

| | | |
|--|-------------------------|--|
| Rainbow Trout: 96hr LC ₅₀ - 1.21 mg/l | Aquatic Toxicity | Daphnia magna: 21-day MATC - 0.37-0.54 mg/l |
| Rainbow Trout: early life stage MATC - 0.12-0.24 mg/l | | Shrimp (Mysidopsis): 96 hr LC ₅₀ - 2.5 mg/l |
| Bluegill Sunfish: 216 hr LC ₅₀ - 3.27 mg/l | | Oyster (Crassostrea): 96 hr EC ₅₀ - 3.0 mg/l |
| Daphnia magna: 48 hr LC ₅₀ - 4.9 mg/l | | Minnow (Cyprinodon): 96 hr LC ₅₀ - 4.0 mg/l |

These data indicate that ETRIDIAZOLE is slightly toxic to fish.

| | | |
|---|-----------------------|--|
| Bobwhite Quail: LD ₅₀ - 560 mg/kg | Avian Toxicity | Mallard Duck: 8-day LC ₅₀ - 1650 ppm |
| Bobwhite Quail: 8-day LC ₅₀ - >5000 ppm | | |

| | | |
|---|----------------------|--|
| Algae (Selenastrum): 5-day EC ₅₀ - 0.072 mg/l | Other Species | Algae (Skeletonema): 5-day EC ₅₀ - 0.38 mg/l |
| Algae (Anabena): 5-day EC ₅₀ - 0.29 mg/l | | Duckweed (Lemna): 14-day EC ₅₀ - 8.2 mg/l |
| Algae (Navicula): 5-day EC ₅₀ - 0.43 mg/l | | |

HEALTH RELATED DATA

SPECIFIC HAZARDS: Contact with eyes may cause irritation. Excess exposure can cause liver damage. Tests in animals have shown etridiazole to be carcinogenic.

Primary Route(s) of Entry: Inhalation, skin absorption.

First Aid Procedures:

- IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
- IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- IF ON SKIN OR ON CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor to treatment advice.
- IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

TOXICOLOGY INFORMATION:

Oral toxicity: LD50 (rats) - 3.3 g/kg
Dermal toxicity: LD50 (rabbits) - >2.0 g/kg
Inhalation toxicity: LC50 (rats) - > 0.41 mg/l (4 hr)
Dermal Irritation: skin (rabbits) - Non-irritating
Dermal Sensitization: (guinea pig) - Negative

Etridiazole Technical:

2-year dog feeding study: Doses of 0.25, 2.5 and 25 mg/kg/day. Effects seen on body weight, liver and kidney weights, histopathology, serum enzyme level. NOEL = 2.5 mg/kg/day.

2-year rat feeding study: Doses of 5, 32 and 64 mg/kg/day. Effects seen on body weight, hematology, and organ weights. Increased incidence of liver, thyroid and testicular tumors. NOEL = 5 mg/kg/day.

Mouse oncogenicity study: Doses of 46, 92 and 183 mg/kg/day. No increase in tumor incidence.

Rat reproduction study: Doses of 0.5, 4 and 32 mg/kg/day. Effects seen on parental and pup body weights. No reproductive effects. NOEL for systemic adult toxicity and pup weight effect = 4 mg/kg/day. Reproductive NOEL = >32 mg/kg/day.

Rabbit teratology study: Doses of 1.7, 5, 15 and 45 mg/kg/day. Maternal toxicity including mortality, body weight effects and fetal resorptions seen at 45 mg/kg/day. Reduced pup weight, missing sternbrae and tail defects seen at 45 mg/kg/day. NOEL for maternal and developmental toxicity = 15 mg/kg/day.

Rat teratology study: Doses of 10, 30 and 75 mg/kg/day. Maternal toxicity including mortality, body weight effects and post-implantation loss seen at 75 mg/kg/day. Reduced pup weight seen at 75 mg/kg/day. NOEL for maternal and developmental toxicity = 30 mg/kg/day.

Mutagenicity: Negative in the following assays: Ames reverse mutation, CHO HGPRT, *in vivo/in vitro* UDS, *S. cerevisiae* mitotic aneuploidy, mouse micronucleus and mouse bone marrow chromosome aberration. Positive in CHO chromosome aberration, **CHO sister chromatid exchange and *in vivo/in vitro* RDS assays.**

Carcinogenic per NTP _____ IARC _____ OSHA _____ EPA **X** (Etridiazole)