



Material Safety Data Sheet

Uniroyal Chemical

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MSDS No. A386002

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R-6

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: TERRAGUARD® 50W

CAS Number: 68694-11-1 (active)

Chemical Name:

Chemical Family: Imidazole

[1-[1[[4 chloro-2-(trifluoromethyl) phenyl]imino]-2-propoxyethyl]-1H Imidazole] 50%

Inerts: 50%

Common Name: Triflumizole

SPECIAL REGULATORY HAZARDS

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limit</u>	<u>OSHA (1910.1200)</u>	<u>EEC*</u>
Product	Mixture	NA	Irritant	Irritant
Crystalline Silica (0.24%)	14808-60-7	0.1 mg/m ³ (ACGIH)	Carcinogen (IARC, 2A)	Possible risk of irreversible effects
Calcium Silicate	1344-95-2	15 mg/m ³ 5 mg/m ³ , resp. dust (OSHA) 10 mg/m ³ , (ACGIH)	Nuisance Particulate	NA

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: Off-white powder; slight aromatic odor.

Solubility: Slightly soluble in water

Specific Gravity (H₂O=1): ND

Vapor Pressure @ 20°C: ND

Melting Point: 225°C (437°F)

Vapor Density (Air = 1): ND

Boiling Point: ND

Volatility @ 70°F: Low

Other Data: Bulk density: 15.8 lbs./ft. 3, pH-8.82

FIRE AND EXPLOSION HAZARD DATA

Flash Point: ND

Autoignition Temperature: 432°C (810°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: None identified.

REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.

Incompatibility: Strong acids.

Decomposition Products: Oxides of carbon and nitrogen under burning conditions.

NA = Not Applicable

ND = Not Determined

* European Economic Community

Uniroyal 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 Uniroyal'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#501074

SPECIAL PROTECTION INFORMATION

Engineering Controls: Sufficient ventilation to minimize dust exposure.

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. Applicators and Other Handlers Must Wear: A long-sleeved shirt and long pants; water-proof gloves; shoes plus socks; protective eyewear. Discard clothing & other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning & maintaining PPE if no such instruction for washables, use detergent & hot water. Keep & wash PPE separately from other laundry. When handlers use closed systems or enclosed cabs or air-craft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides 40CFR170.240 (d), the handler PPE requirements may be reduced or modified as specified in the WPS.

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 use or store near heat or open flame. Store in a cool, dry location.

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

Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Paper: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Environmental Information: This product is toxic to fish. Do not contaminate water when disposing of equipment washwaters. Do not discharge effluent containing this product directly into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State, Water Board or Regional Office of the Environmental Protection Agency.

Triflumizole Technical

Trout: 96 hr LC₅₀ - 0.58 mg/l

Bluegill Sunfish: 96 hr LC₅₀ - 1.2 mg/l

Daphnia: 48 hr EC₅₀ - 1.4 mg/l

Carp: 96 hr LC₅₀ - 0.76 mg/l

Quail: LD₅₀ - > 2510 mg/kg

Quail: LC₅₀ - > 5620 ppm

Duck: LC₅₀ - > 5620 ppm

Triflumizole is toxic to fish and slightly toxic to birds. No adverse effects on avian species have been seen in acute tests.

HEALTH RELATED DATA

SPECIFIC HAZARDS: Contact with eyes can cause irritation. Chronic inhalation exposure may cause lung damage. Repeated, minimal contact with skin may cause an allergic skin reaction.

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

First Aid Procedures: **IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of Ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

TOXICOLOGY INFORMATION:

Oral toxicity: LD₅₀ (rats) - 2.23 g/kg

Dermal toxicity: LD₅₀ (rabbits) - > 2.0 g/kg

Inhalation toxicity: LC₅₀ (rats) - > 5.3 mg/l

Irritation: eye (rabbits) - moderate

skin (rabbits) - negative

Sensitization: skin (guinea pigs) - moderate

Chronic: The feeding to rats and mice of up to 1600 ppm triflumizole technical for two years did not produce an increased tumor incidence.

Teratogenicity: The administration of triflumizole technical to pregnant rats of up to 120 mg/kg/day and to pregnant rabbits of up to 50 mg/kg/day during gestation did not produce teratogenic effects.

A two-generation reproduction study in rats at doses up to 170 ppm demonstrated a no effect level of 70 ppm for parental systemic toxicity. An increase in pup gestation length was observed at a dose level of 30 ppm and greater.

This product contains clay and or diatomaceous earth which contains crystalline silica (0.24%), a naturally occurring component of sand and inorganic soils. Crystalline silica has been classified as a 2A carcinogen by the International Agency for Research on Cancer (IARC).