

SYSTEMIC FUNGICIDE FOR TURF AND ORNAMENTALS
MATERIAL SAFETY DATA SHEET

Manufacturer's Name & Address

Southern Agricultural Insecticides, Inc.
 PO Box 218, Palmetto, Fla. 34220

Phone: 941-722-3285

Chemtrec: 800-424-9300.

I. NOMENCLATURE

Product Name: Systemic Fungicide for Turf and Ornamentals EPA Reg. No. 829-289

Contains Bayleton^R Fungicide

CHEMICAL NAME: 1-(4-chlorophenoxy)-3,3-dimethyl-1-((1H-1,2,4-triazol-1-yl)-2-butanone

Common name Triadimefon Formula C14 H16 CL N3 O2 Molecular Weight 293.8

Chemical Family: Triazole fungicide

II. HAZARDOUS INGREDIENTS

	CAS #	OSHA TWA	ACGIH TWA	Concentration
Triadimefon	.43121-43-3	not established	not established	Nominal 0.9 %
Cyclohexanone	108-94-1	200 mg/m ³	25 ppm TWA (skin)	1-5 %
Ingredient # 1406	trade secret	not established.	not established	<1-3 %
Ingredient # 1422	trade secret	not established.	not established	90-97%

III. PHYSICAL DATA

Boiling Point: Not Established

Specific Gravity: 1.03 @ 20°C/20°C

Vapor Pressure:(triadimefon) 1.5 x 10⁻⁷ mm Hg @ 20 °C

Melting Point/Freezing

Point: Less than -7°C

Percent Volatile: (by volume) Not established

Vapor Density: (air=1) Not Established

Solubility In Water: soluble (Triadimefon) 64 ppm @ 20°C

pH 1% solution pH 5

Appearance/Odor: Clear, light yellow liquid with petroleum distillate odor

Boiling point: Not established

IV FIRE & EXPLOSION DATA

Flash Point: 162°F Set-A-Flash

Flammable Limits: Lel: Not Established. Uel: Not Established.

Extinguishing Media: Water spray, Dry chemical, foam, or CO₂. If water is used, apply as a fine spray and contain runoff.

Use water spray to cool containers.

Special Fire Fighting Procedures: Fight fire from upwind position. Firemen should wear full protective clothing and self contained breathing apparatus .

NFPA 704M Ratings:

Health	Flammability	Reactivity
0	1	1
0=insignificant	1=slight	2=moderate 3=High 4 extreme

V. REACTIVITY

Stability: stable

Polymerization: Will not Occur.

Instability Conditions: Heat. Storage temperatures: Min. 0°F - Max. 30 day average not to exceed 100°F.

Materials to Avoid: Strong oxidizing agents, acids.

Hazardous Decomposition Products: Proposed due to fire or other extreme conditions Hcl, amines, nitrogen oxides
 Carbon monoxide.

VI. FIRST AID

EYE Exposure: Flush eyes a gentle stream of clean water for at least 15 minutes. Hold eye lids apart to ensure washing underside of lids. Remove contact lenses while rinsing. Get medical attention. .

For SKIN : Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists. If signs of poisoning occur get immediate medical attention.

FOR INHALATION: Move from immediate source of exposure to fresh air. and Insure victim is breathing. If breathing is difficult, administer oxygen, if not breathing give artificial respiration, preferably mouth to mouth. Get immediate medical attention.

FOR INGESTION: If ingestion is suspected, call a physician or poison control center. If medical assistance cannot be given immediately, drink promptly large quantities if water. Avoid alcohol. Do not induce vomiting. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious give additional water to further dilute the chemical. Do not attempt to give anything by mouth to an unconscious or convulsing person..

NOTE TO PHYSICIAN: Ingestion- This formulation is expected to be of low toxicity. Treat Symptomatically. In case o f poisoning, it is also requested that Bayer Corp., Agriculture Division, Kansas City, Mo. be notified.

Telephone 816/242-2582 , Refer to product code #022958.

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VII. HUMAN HEALTH DATA

Routes of entry; Inhalation, Skin Contact, Skin Absorption, Eye contact

Symptoms of OVEREXPOSURE: **Acute:** The active ingredient in this product has low toxicity.. **Eye irritation** may occur from contact with the liquid resulting in tearing and /or reddening of the eyes. The aromatic hydrocarbon solvents in this product can be irritating to the eyes, nose, and throat. In high concentration, they may cause central nervous system depression and narcosis characterized by nausea, lightheadedness and dizziness from overexposure by inhalation. Based on EPA Toxicity Category criteria, this material is essentially non-toxic orally and mildly toxic dermally. Animal studies have shown that it can cause mild irritation to the cornea, iris and conjunctiva with all remarkable irritation resolving within 3 days, and that it is a positive dermal sensitizer

CHRONIC EFFECTS OF EXPOSURE: Based on animal studies, no adverse effects or symptoms would be expected from chronic exposure to the active ingredient in this product during normal use. However repeated skin contact may result in defatting of the skin by solvents in the product which can lead to redness and irritation of the skin. Chronic overexposure to these solvent components may cause mucous membrane irritation, nausea, headache, loss of appetite, weakness, and alcohol intolerance.

CARCINOGENICITY: No component of this product is listed by NTP, IARC, or regulated as a carcinogen by OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No specific medical conditions are known which may be aggravated by exposure to the active ingredient in this product. However, certain pre-existing skin, eye, liver, and kidney disorders may be aggravated by exposure to this product due to the solvent components.

VIII. PERSONAL PROTECTIVE RECOMMENDATIONS:

EYES: Splash proof goggles. SKIN: Chemical resistant gloves, clean long sleeved clothing and long trousers.

RESPIRATOR: Under normal handling conditions no respiratory protection needed. When appropriate, wear a NIOSH-approved organic vapor respirator with particulate filter or a NIOSH-approved pesticide respirator.

VENTILATION REQUIREMENTS: Maintain exposure levels below applicable exposure limits using general and local exhaust as needed.

ADDITIONAL PROTECTIVE MEASURES: Clean water should be available in case of eye or skin contamination. Launder clothing separately after use. Wash thoroughly after handling.

IX. SPILL OR LEAK PROCEDURES:

Isolate area and keep unauthorized people away. Do not walk through spilled material. Avoid breathing vapors and skin contact. Use recommended protective equipment. Dike contaminated area with absorbent granules, soil or sand. If a large spill material should be recovered. Small spills can be absorbed with absorbent granules or other absorbent material. Carefully sweep up absorbed spilled material and place in a marked covered container for recovery or disposal. Scrub contaminated area with soap and water. Rinse with water. Contaminated soils may have to be removed or disposed of. Do not allow material to enter streams, sewers, or other waterways.

Waste Disposal: Follow container label instructions for disposal of wastes generated during use. In other situations, dispose of waste material in RCRA approved incinerator. Do not reuse container.

X. STORAGE DATA

Storing Precautions: Keep out of reach of children and domestic animals. Store in cool, well ventilated, dry, locked area designated specifically for pesticides Do not store below 0°F or above a 30 day average not to exceed 100°F. Do not store with any material intended for use or consumption by humans or animals. Do not place damaged or leaking containers in inventory.

Other Precautions: KEEP OUT OF REACH OF CHILDREN.

XI. SHIPPING & FEDERAL REGULATORY INFORMATION:

Freight class all packing sizes Fungicides NOI, liquid NMFC 102120

Not regulated; DOT (domestic surface), IMO / IMDG code (Ocean), IACO / IATA (Air)

OSHA Status This product is hazardous under the criteria of the Federal OSHA communication standard 29 CFR 1910.1200

CERCLA REPORTABLE QUANTITY: 406,600 LB of product contains 5000 lb. of cyclohexanone.

SARA Title III section 302 extremely hazardous substances: No components listed.

section 311/312: Immediate Health Hazard: Fire Hazard

Section 313 Toxic chemicals; No components listed

RCRA Status When discarded in its purchased form, this product meets the criteria of ignitability, and should be managed as a hazardous waste. (EPA hazardous waste # D001) (40 CFR 261.20-24)

