

**MATERIAL SAFETY DATA SHEET**

Agricultural Products Group  
 P.O.Box 13528,  
 Research Triangle Park, NC 27709  
 (919) 547-2000

**EMERGENCY TELEPHONE NUMBERS:**

**BASF Corporation: 1 (800) 832-HELP**

**CHEMTREC: 1 (800) 424-9300**

**Product No.: 557005**

**Ronilan® EG fungicide**

**Date Prepared: 5/30/1997 Date Revised: 5/5/2004**

**SECTION I**

**Trade Name: Ronilan® EG fungicide**

**Chemical Name: 3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione**

**Synonyms: Vinclozolin (active ingredient);** **Formula: C(12) H(9) N O(3) Cl(2)**  
**BAS 352 46 F (formulation)** **(active ingredient)**

**Chemical Family: Dichloroaniline** **Mol Wt: 286.1 (active ingredient)**

**SECTION II - INGREDIENTS**

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
Vinclozolin	50471-44-8	50	1.0 mg/m(3) BASF recommended
Inerts	N/A	50	Not established

This formulation contains kaolin. Kaolin contains small amounts of crystalline silica. This formulation may contain more than 0.1% crystalline silica.

**SARA Title III Section 313: Listed**

**SECTION III - PHYSICAL DATA**

**BOILING/MELTING POINT@760mm Hg: N/D** **pH: N/D**

**VAPOR PRESSURE mmHg @ 20°C: N/D**

**SPECIFIC GRAVITY OR BULK DENSITY: 28. lb/ft(3)**

**SOLUBILITY IN WATER: Water Dispersible**

**APPEARANCE: Tan powder** **ODOR: Aromatic** **INTENSITY: Slight**

**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASH POINT (TEST METHOD): N/D** **AUTOIGNITION TEMP: \*\*See below**

**FLAMMABILITY LIMITS IN AIR (% BY VOL):** **LOWER: N/D** **UPPER: N/D**

**NFPA 704 HAZARD CODES**

**HEALTH: 1** **FLAMMABLE: 3\*** **INSTABILITY: 1\*** **OTHER:**

**NFPA 30 STORAGE CLASSIFICATION: Non-flammable solid**

**EXTINGUISHING MEDIUM** Use water fog, CO(2), or dry chemical extinguishing media.

**SPECIAL FIREFIGHTING PROCEDURES** Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

**UNUSUAL FIRE EXPLOSION HAZARDS** \*May form an explosive dust/air mixture. Organic solids will burn at elevated temperatures. All products of incomplete combustion and/or decomposition have not been determined. \*\*Exotherm initiation temperature (Greiner oven): 214° C

**SELECT ACRONYM KEY**

N/A - Not available; N/D - Not determined; N/R - Not rated; N/E - Not established

**SECTION V - HEALTH DATA****TOXICOLOGICAL TEST DATA:**

For Ronilan® EG:

Rat, Oral LD50 &gt; 5000 mg/kg

Rat, Dermal LD50 &gt; 2000 mg/kg

Rat, Inhalation LC50 (4 hour) &gt; 5.3 mg/L

Rabbit, Skin Irritation - Non-irritating

Rabbit, Eye Irritation - Non-irritating

Guinea pig, Dermal Sensitization - Sensitizing

**OSHA, NTP, or IARC Carcinogen:** Lifetime feeding studies of vinclozolin (ai) to rodents have shown an increased incidence of tumors at excessive dose levels.

**EFFECTS OF OVEREXPOSURE:**

**See Product Label and Directions For Use for additional precautionary statements.**

Hazards to Humans and Domestic Animals

Caution. Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Do not get on skin, in eyes or on clothing.

Avoid breathing vapor or spray mist. Prolonged exposure or frequently repeated skin contact may cause allergic reactions in some individuals.

For the active ingredient, vinclozolin: Tests indicate embryotoxicity, reproductive toxicity and cataract formation in animal studies.

Also, endocrine changes have been reported in animal developmental, subchronic and chronic toxicity studies.

For a minor component of the formulation:

Overexposure to crystalline silica results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses. The International Academy for Research on Cancer (IARC) has classified crystalline silica in Group 1 (those agents with evidence of carcinogenicity to humans).

Existing medical conditions aggravated by exposure to this material: No information found for this mixture.

**FIRST AID PROCEDURES**

- If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
- If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- 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 by a poison control center or doctor. Do not give anything to an unconscious person.

**SECTION VI - REACTIVITY DATA**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Moisture

**CHEMICAL INCOMPATIBILITY:** Unknown, see label for recommended mixtures.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Combustion may generate HCl and NOx.

**HAZARDOUS POLYMERIZATION:** Does not occur.

**CONDITIONS TO AVOID:** N/A

**CORROSIVE TO METAL:** No

**OXIDIZER:** No



**SECTION IX - SHIPPING DATA - PACKAGE AND BULK****D.O.T. PROPER SHIPPING NAME (49CFR172.101-102):**

None

**HAZARDOUS SUBSTANCE  
(49CFR CERCLA LIST):**

No

**RQ(lbs):** None**D.O.T. HAZARD CLASSIFICATION (CFR 172.101-102):****PRIMARY**

None

**SECONDARY**

None

**D.O.T. LABELS REQUIRED (49CFR172.101-102):**

None

**D.O.T. PLACARDS  
REQUIRED (CFR172.504):**

None

**POISON CONSTITUENT  
(49CFR172.203(K)):**

None

**BILL OF LADING DESCRIPTION**

Fungicide, Agricultural, NOIBN

**CC NO.:** 432**UN/NA CODE:** None**SECTION X - ADDITIONAL INFORMATION****Ronilan® EG fungicide****Not for use in Florida**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WARNING: This product contains a chemical known to the State of California to cause cancer.

Made in Germany

**KEEP OUT OF REACH OF CHILDREN****CAUTION****Complete Label and Directions For Use are attached to the product.****Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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