

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.: 557008

Curalan® EG fungicide

Date Prepared: 6/17/1997 Date Revised: 5/21/2004

SECTION I

Trade Name: Curalan® 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 49 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 Curalan® EG:

Rat, Oral LD50, > 5000 mg/kg

Rat, Dermal LD50, > 2000 mg/kg

Rat, Inhalation LC50 (4 hour) > 5.3 mg/L

Rabbit, Skin 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.

Precautionary Statements

Hazards to Humans and Domestic Animals

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: Not known

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)):**

N/A

BILL OF LADING DESCRIPTION

Fungicide, Agricultural, NOIBN

CC NO.: 432**UN/NA CODE:** N/A**SECTION X - ADDITIONAL INFORMATION****Curalan® EG fungicide**

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.

BASF Corporation

Agricultural Products Group

P.O.Box 13528,

Research Triangle Park, NC 27709

(919) 547-2000

DISCLAIMER

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.