

US EPA ARCHIVE DOCUMENT

122101
SHAUGHNESSEY NO.

REVIEW NO.

EEB BRANCH REVIEW

DATE: IN 2/18/81 OUT 3/4/81

FILE OR REG. NO. 100-ARI

PETITION OR EXP. PERMIT NO. _____

DATE OF SUBMISSION 1/28/81

DATE RECEIVED BY HED 2/13/81

RD REQUESTED COMPLETION DATE 6/13/81

EEB ESTIMATED COMPLETION DATE _____

RD ACTION CODE/TYPE OF REVIEW 115/ New Chemical--Conventional--Nonfood

TYPE PRODUCT(S) I, D, H, F, N, R, S Fungicide

DATA ACCESSION NO(S). 244273

PRODUCT MANAGER NO. H. Jacoby (21)

PRODUCT NAME(S) CGA-64250 Technical

COMPANY NAME CIBA-GEIGY Corporation

SUBMISSION PURPOSE Full registration (3(c)(5)) of Formulating use

SHAUGHNESSEY NO.	CHEMICAL, & FORMULATION	% A.I.
<u>122101</u>	<u>1-[2-(2',4'-Dichlorophenyl)-4-propyl-</u>	_____
_____	<u>1,3-dioxolan-2-yl-methyl]-1H-1,2,4-triazole</u>	<u>88%</u>
_____	_____	_____

Pesticide Name

CGA-64250

100 Pesticide Label Information

100.1 Pesticide Use

For formulation of fungicide products.

100.2 Formulation Information

1-[2-(2',4'-Dichlorophenyl-4-propyl-1,3-dioxolan-2-yl-methyl)-1H-1,2,4-triazole	88%
Inert Ingredients	12%
	<u>100%</u>

100.5 Precautionary Labeling

The label contains the caution:

" Environmental Hazards

Do not contaminate domestic or irrigation water supplies, or lakes, streams, or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. "

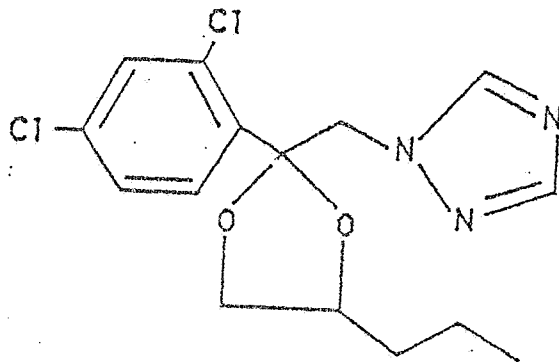
101 Physical and Chemical Properties

See attached technical bulletin.

101.1 Chemical Name

1-[2-(2',4'-Dichlorophenyl-4-propyl-1,3-dioxolan-2-yl-methyl)-1H-1,2,4-triazole

101.2 Structural Formula



101.4 Trade Name

CGA-64250

101.7 Solubility

110 ppm in water at 20°C
miscible in alcohols and organic solvents

102 Behavior in the Environment

Environmental Fate Branch has not completed their review of this product. The technical bulletin provided by the registrant states that no significant hydrolysis of the technical material occurred in 28 days. The vapor pressure of the material indicates that it is not very volatile.

103 Toxicological Properties

103.1 References from Toxicology Branch

Toxicology Branch has not completed their review of this product.

103.2 Minimum Requirements

103.2.1 Avian Acute Oral LD₅₀

Bobwhite quail
2825(1756-4546)mg/kg - Technical(91%)
Core - Beavers(1980) - in Acc# 244273

Mallard duck
Greater than 2510 mg/kg - Technical(91%)
Core - Beavers(1980) - in Acc# 244273

103.2.2 Avian Dietary LC₅₀

Bobwhite quail
Greater than 5620 ppm - Technical(91%)
Core - Beavers(1980) - in Acc# 244273

Mallard duck
Greater than 5620 ppm - Technical(91%)
Core - Beavers(1980) - in Acc# 244273

103.2.3 Fish Acute LC₅₀

Bluegill sunfish
1.3(1-1.8)ppm - Technical(91%)
Core - Thompson(1980) - in Acc# 244273

Rainbow trout
0.85(0.67-1.2)ppm - Technical(91%)
Core - Thompson(1980) - in Acc# 244273

Channel catfish
1-2ppm - Technical(91%)
Supplemental - Thompson(1980) - in Acc# 244273

103.2.4 Aquatic Invertebrate LC₅₀

Daphnia magna
4.8(3.9-6.2)ppm - Technical(91%)
Core - Forbis(1980) - in Acc# 244273

104 Hazard Assessment

104.2 Likelihood of Adverse Effects

The formulating use of CGA-64250 is not likely to result in any exposure to fish, wildlife, or other non-target organisms except through accidents or effluent discharge.

107 Conclusions

107.3 Environmental Hazards Labeling

The label caution should include the statement "This product is toxic to fish."

107.4 Data Adequacy Conclusions

The studies submitted are sufficient to support the formulating use of CGA-64250. The only study which was not adequate was the channel catfish LC₅₀ study, which was in excess of requirements, and so need not be re-performed.

107.7 Recommendations

EEB has no objection to the registration of CGA-64250 for formulation of fungicides.

Stephen M Hopkins 3-4-81
Stephen M Hopkins
Plant Physiologist
Ecological Effects Branch, HED

Dave Coppage 3-4-81
Dave Coppage
Head, Section 3
Ecological Effects Branch, HED

Norman Cook 3/5/81
Clayton Bushong
Chief
Ecological Effects Branch, HED