

111601

Date Out: EFB: APR 23 1981

To: Product Manager 23 Mountfort  
TS-767

From: Dr. Willa Garner III  
Chief, Review Section No. 1  
Environmental Fate Branch

Attached please find the environmental fate review of:

Reg./File No: 707-145

Chemical: Oxyfluorfen

Type Product: Herbicide

Product Name: Goal

Company Name: Rohm and Haas

Submission Purpose: Review of data supporting partition coefficient for  
Goal.

ZBB Code: Other

ACTION CODE: 435

Date Completed: 2/3/81

EFB # 760

Date Completed: APR 23 1981

TAIS (level II)

Days

Deferrals To:

67

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       Ecological Effects Branch

       Residue Chemistry Branch

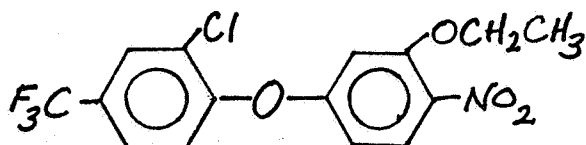
       Toxicology Branch

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## 1.0 Introduction

Rohm and Haas Co. has submitted data on the octanol-water partition coefficient of oxyfluorfen (Goal).

Oxyfluorfen = Goal; 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-trifluoromethyl benzene; RH-2915



## 2.0 Discussion of Data "Partition Coefficient of RH-2915," T.A. Garstka, Dec. 2, 1976, Report No. 34H-76-25, Rohm and Haas Co., Philadelphia, PA., Accession No. 244078

Note: Strictly speaking, review of this data is the purview of Product Chemistry. The study is reviewed here for its informational content.

### Experimental Procedures

A 54 ppm solution of  $^{14}\text{C}$ -RH-2915 in octanol was equilibrated with an equal volume of water, centrifuged, and both layers were assayed by liquid scintillation counting.

### Results

On octanol: water partition coefficient of  $2.94 \times 10^4$  was obtained (average of two determinations).

## 3.0 Recommendations

1. This appears to be a valid study which satisfies EFB needs for data of this type.
2. The octanol: water partition coefficient of  $2.94 \times 10^4$  is sufficiently large to predict that oxyfluorfen has a propensity for adsorption to various organic substrates, and for accumulation in biological systems.

*Henry Appleton*

Henry Appleton  
Chemist, Review Section 1, EFB/HED

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