NOTE
The Society is not responsible, as a body, for the statements and opinions advanced in this publication.
Foreword

The papers in this publication were presented at the symposium on Pesticide Formulations and Application Systems: Second Conference, the second in a series of symposia on this subject. The first in the series was titled Pesticide Tank Mix Applications: First Conference and has been published as ASTM STP 764 (1981). This second symposium was held in Kansas City, Mo., on 19 Oct. 1981. The sponsors were ASTM Committee E-35 on Pesticides and ASTM Subcommittee E35.22 on Pesticide Formulations and Application Systems. Dr. K. G. Seymour of the Dow Chemical Co. was chairman of the symposium and also served as editor of this publication.
Related
ASTM Publications

Pesticide Tank Mix Applications: First Conference, STP 764 (1982), 04-764000-48

Avian and Mammalian Wildlife Toxicology: Second Conference, STP 757 (1981), 04-757000-48

Avian and Mammalian Wildlife Toxicology: First Conference, STP 693 (1979), 04-693000-48

Vertebrate Pest Control and Management Materials (Third Conference), STP 752 (1981), 04-752000-48

Vertebrate Pest Control and Management Materials (Second Conference), STP 680 (1979), 04-680000-48

Test Methods for Vertebrate Pest Control and Management Materials (First Conference), STP 625 (1977), 04-625000-48

Aquatic Toxicology and Hazard Assessment (Fifth Conference), STP 766 (1982), 04-766000-16

Aquatic Toxicology and Hazard Assessment (Fourth Conference), STP 737 (1981), 04-737000-16

Aquatic Toxicology (Third Conference), STP 707 (1980), 04-707000-16

Aquatic Toxicology (Second Conference), STP 667 (1979), 04-667000-16

Aquatic Toxicology and Hazard Evaluation (First Conference), STP 634 (1977), 04-634000-16
A Note of Appreciation to Reviewers

The quality of the papers that appear in this publication reflects not only the obvious efforts of the authors but also the unheralded, though essential, work of the reviewers. On behalf of ASTM we acknowledge with appreciation their dedication to high professional standards and their sacrifice of time and effort.

ASTM Committee on Publications
ASTM Editorial Staff

Janet R. Schroeder
Kathleen A. Greene
Rosemary Horstman
Helen M. Hoersch
Helen P. Mahy
Allan S. Kleinberg
Virginia M. Barishek
Contents

Introduction 1

Package Development from the Pesticide Industry Viewpoint—
J. P. MCGREEEY 3

Package Selection, Testing, and Transportation Regulations—
R. B. SCHAEFER 7

Pesticide Packaging Container Standards—Sizes and Fittings—
JOSEPH GIAMMANCO, JR. 15

The Formulation Chemist in an Emergency Response System—
J. F. WRIGHT 19

Introduction to Granular Carriers, Granular Pesticide Formulations, and
Processing—E. W. SAWYER 26

Available Granular Carriers—Properties and General Processing
Methods—H. W. ROSS 32

Flowable Pesticide Formulations: Development, Process, and the Need
for Standard Testing Procedures—C. G. HALLIDAY 45

Granular Application Equipment—The State of the Art and Current
Problems—R. R. JOHNSON 53

Field Studies Monitoring Worker Exposure to Pesticides—T. L. LAVY,
J. D. MATTICE, AND R. R. FLYNN 60

Physical and Biological Responses for Several Suspension Formulations—
D. B. SMITH, F. D. HARRIS, AND D. L. HOSTETTER 75

Spray Characteristics of Rotary Atomizers—L. E. BODE AND
B. J. BUTLER 89

Summary 105

Index 109