CONTENTS

	Page
AIM OF THE PRESENT WORK	
SUMMARY	i
CHAPTER I.	
INTRODUCTION	1
Homopolymerization of monomers	1
Free radical chain polymerization	3
Kinetic of homopolymerization	7
Copolymerization reaction of monomers	10
Copolymerization composition equation	10
Types of copolymerization	12
Methods of calculating monomer reactivity ratios	13
Factors affecting the monomer reactivity	19
Monomer reactivity and interpretion Q-e scheme	21
Distribution of monomers in copolymers	22
Mode of action of organotin	23
Acrylamides and methacrylamides	25
Organotin polymers	26
Tin atoms in polymer main chain	27
Tin atoms pendant to polymer chain	28
CHAPTER II.	
MATERIALS AND METHODS	
Preparation of o-methacrylamidobenzoic acid	42
Preparation of o-methacrylamido-tri-n-butyltin benzoate	44
Homopolymerization reaction	44
Binary copolymerization reactions	44

Ternary copolymerization reaction
Determination of the monomer reactivity ratios
Preparation and properties of organotin polymers films
Determination of tin content
CHAPTER III.
RESULTS AND DISCUSSION
Synthesis of o-methacrylamidobenzoic acid
Polymerization of o-methacrylamido-tri-n-butyltin benzoate
Copolymerization of methacrylamido-tri-n-butyltin
benzoate with acrylic acid esters
Copolymerization of methacrylamido-tri-n-butyltin
benzoate with methacrylic esters
Copolymerization of methacrylamido-tri-n-butyltin
benzoate with different monomers
CHAPTER IV
PREPARATION AND PROPERTIES OF SOME FILMS
FORMING ORGANOTIN POLYMERS
The controlled release of tri-n-butyltin oxide
REFERENCES
ARABIC SUMMARY