

C O N T E N T S

	Page
Acknowledgement ..	(I)
Summary ..	(III)
A Short review on organotin coordination compounds ..	1
Estertin compounds and their PVC stabilizing properties ..	35
Scope and objective of the present investigation ..	55
Experimental	
1. Preparation of Bis(β -carbomethoxy ethyl)tin dichloride ..	61
2. Preparation of β -carbomethoxy ethyl tin trichloride ..	61
3. Preparation of Bis(β -carbobutoxy ethyl)tin dichloride ..	62
4. Preparation of β -carbobutoxy ethyl tin trichloride ..	62
5. Preparation of β -carbomethoxy (β' -methyl ethyl tin trichloride ..	63
6. Preparation of α,α' -dimethyl(β -acetyl ethyl tin trichloride ..	63
7. Preparation of 5,7-dibromo oxine	64
8. Preparation of phenyl-5-azo oxine	64
9. Preparation of 5-(2'-carboxy phenyl)azo oxine ..	64
10. Preparation of Bis(β -carbomethoxy ethyl) chloro tin oxinate ..	65
11. Preparation of Bis (β -carbomethoxy ethyl) tin bis oxinate ..	65

	Page
12. Preparation of Bis(β -carbomethoxy ethyl) thiocyanato tin oxinate	66
13. Reaction of Bis(β -carbomethoxy ethyl) chlorotin oxinate with sodium azide	67
14. Preparation of β -carbomethoxy ethyl chloro tin bis-oxinate	68
15. Preparation of β -carbomethoxy ethyl thiocyanato tin bis-oxinate	69
16. Preparation of β -carbomethoxy ethyl tin tris-oxinate ..	70
17. Reaction of Bis(β -carbobutoxy ethyl) tin dichloride with oxine	71
18. Preparation of β -carbobutoxy ethyl chloro tin bis-oxinate	72
19. Preparation of β -carbobutoxy ethyl thiocyanato tin bis-oxinate	73
20. Preparation of β -carbobutoxy ethyl tin tris-oxinate ..	74
21. Preparation of β -carbomethoxy β' -methyl ethyl chloro tin bis-oxinate	75
22. Preparation of α,α' -dimethyl β -acetyl ethyl chloro tin bis-oxinate	75
23. Preparation of Bis(β -carbomethoxy ethyl) tin bis-5,7-dichloro oxinate	76
24. Preparation of β -carbomethoxy ethyl chloro tin bis-5,7-dichloro oxinate	77
25. Reaction of Bis(β -carbobutoxy ethyl) tin dichloride with 5,7-dichloro oxine	78
26. Preparation of β -carbobutoxy ethyl chloro tin bis-5,7-dichloro oxinate	79
27. Preparation of β -carbomethoxy β' -methyl ethyl chloro tin bis-5,7-dichloro oxinate	80

	Page
28. Preparation of Bis(β -carbomethoxy ethyl) tin bis-5,7-dibromo oxinate	81
29. Preparation of β -carbomethoxy ethyl chloro tin bis-5,7-dibromo oxinate	82
30. Reaction of Bis(β -carbobutoxy ethyl) tin dichloride and 5,7-dibromo oxine	83
31. Preparation of β -carbobutoxy ethyl tin tris- 5,7-dibromo oxinate	84
32. Preparation of β -carbomethoxy β' -methyl ethyl chloro tin bis-5,7-dibromo oxinate	85
33. Preparation of Bis(β -carbomethoxy ethyl) tin bis-phenyl-5-azo oxinate	86
34. Preparation of β -carbomethoxy ethyl chloro tin bis-phenyl-5-azo oxinate	87
35. Preparation of Bis(β -carbobutoxy ethyl) tin bis-phenyl-5-azo oxinate	88
36. Preparation of β -carbobutoxy ethyl chloro tin bis-phenyl-5-azo oxinate	89
37. Preparation of β -carbomethoxy β' -methyl ethyl chloro tin bis-phenyl-5-azo oxinate	90
38. Preparation of Bis(β -carbomethoxy ethyl) tin bis-5-(2'-carboxy phenyl)azo oxinate	91
39. Preparation of Bis(β -carbomethoxy ethyl) tin bis-dithizonate ..	92
40. Preparation of Bis(β -carbomethoxy ethyl) chloro tin bis-dithizonate	93
41. Preparation of Bis(β -carbomethoxy ethyl) thiocyanato tin dithizonate	94
42. Preparation of β -carbomethoxy ethyl chloro tin bis-dithizonate	95
43. Preparation of Bis(β -carbobutoxy ethyl) tin bis-dithizonate ..	96

	Page
44. Preparation of β -carboboxy ethyl chloro tin bis-dithizonate	97
45. Preparation of β -carbomethoxy β' -methyl ethyl chloro tin bis-dithizonate	98
46. Reaction of α, α' -dimethyl β -acetyl ethyl tin trichloride with dithizone	99
47. Preparation of Bis(β -carbomethoxy ethyl) chloro tin diphenyl carbazonate	100
48. Reaction of Bis(β -carboboxy ethyl) tin dichloride with diphenyl carbazone	101
49. Preparation of Bis(β -carbomethoxy ethyl) tin alizarinate ..	102
50. Preparation of β -carbomethoxy ethyl chloro tin alizarinate	103
51. Preparation of Bis(β -carboboxy ethyl) tin alizarinate ..	104
52. Preparation of β -carboboxy ethyl chloro tin alizarinate	105
53. Reaction of Bis(β -carbomethoxy ethyl) tin dichloride with Quinalizarin	106
54. Reaction of Bis(β -carbomethoxy ethyl) tin dichloride with sodium alizarin sulphonate (Alizarin - S)	106
55. Preparation of Bis(β -carbomethoxy ethyl) chloro tin 1-nitroso-2-naphtholate	107
56. Preparation of Bis (β -carbomethoxy ethyl) tin dithiocyanate ..	109
57. Preparation of β -carbomethoxy ethyl dichloro tin thiocyanate	110
58. Reaction of Bis (β -carbomethoxy ethyl) tin dichloride with Sodium azide	111

	Page
59. Reaction of Bis(β -carbomethoxy ethyl) tin dichloride with sodium acetate/ silver acetate ..	112
Spectral data	
UV-Visible spectral data ..	114
IR spectral data ..	123
PMR spectral data ..	143
Preliminary evaluation of β -carboalkoxy ethyl tin coordination compounds as PVC stabilizers ..	154
Discussion ..	157
References ..	229
