

CONTENTS

| | |
|---------------------------|----|
| INTRODUCTION | 1 |
| OXIDATION PRODUCTS | 3 |
| Ethylene Oxide | 3 |
| Acetaldehyde | 18 |
| HALOGEN DERIVATIVES | 28 |
| Ethylene Dichloride | 29 |
| Ethylene Dibromide | 34 |
| Ethyl Chloride | 39 |
| Vinyl Chloride | 45 |
| Ethylene Chlorohydrin | 46 |
| ESTERIFICATION PRODUCTS | 51 |
| Vinyl Acetate | 51 |
| ALKYLATION PRODUCTS | 54 |
| Ethylbenzene | 54 |
| HYDRATION PRODUCTS | 61 |
| Ethanol (and Ethyl Ether) | 61 |
| HYDROFORMYLATION PRODUCTS | 69 |
| Propionaldehyde | 69 |
| Diethyl Ketone | 72 |
| Propionic Acid | 76 |
| POLYMERIZATION PRODUCTS | 77 |
| Ethylene Growth Reaction | 77 |
| Polyethylene Resins | 82 |
| ORGANOMETALLICS | 93 |
| Aluminum Compounds | 93 |
| Boron Compounds | 97 |
| FUTURE TRENDS | 99 |