

## TABLE OF CONTENTS

|                                                              |    |
|--------------------------------------------------------------|----|
| Introduction to Asbestos and Health .....                    | 1  |
| Overview.....                                                | 1  |
| The Health Problem.....                                      | 1  |
| Medical Aspects.....                                         | 2  |
| Built-In Dust Defenses.....                                  | 2  |
| Asbestos-Related Diseases.....                               | 3  |
| Biological Reactions: Asbestosis.....                        | 4  |
| Lung Cancer and Mesothelioma.....                            | 5  |
| Fiber Differences Play Key Role.....                         | 5  |
| Dosage Standards.....                                        | 7  |
| Dust Control: How Effective.....                             | 8  |
| Smoking and Asbestos.....                                    | 9  |
| Locked-In and Non-Locked-In.....                             | 10 |
| OSHA Standards for Occupational<br>Exposure to Asbestos..... | 11 |
| Standards.....                                               | 12 |
| Monitoring.....                                              | 12 |
| Methods of Compliance.....                                   | 12 |
| Medical Requirements.....                                    | 13 |
| Labeling.....                                                | 13 |
| EPA Standards for Airborne Asbestos<br>Emissions.....        | 13 |
| J-M Fiber Handling Systems.....                              | 14 |
| Bulk Fiber Handling Systems.....                             | 14 |
| In-Plant Fiber Handling Systems.....                         | 15 |
| Fiber Packaging.....                                         | 16 |
| Shipping.....                                                | 16 |
| New Concepts.....                                            | 17 |
| Dust Control Through Engineering.....                        | 18 |
| Designing Dust Control for the Job.....                      | 18 |
| Some Dust Control Principles.....                            | 19 |
| Facing Tomorrow's Challenges.....                            | 20 |
| The Environmental Affairs Department.....                    | 21 |
| Biographies.....                                             | 23 |
| Order Form for Printed Material.....                         | 25 |

This report was prepared by the Environmental Affairs Department of Johns-Manville, in cooperation with the Asbestos Fiber Division, Employee Relations Department and Environmental Engineering. March 1974.

**PRODUCED**  
**JM - 83**