

# Technical Report Summary

Form 6747 - 11 - K

# 3M

To: Patent & Technical Communications Services — 201-2C-12

Report Summary must be typewritten. Guidelines are on reverse side.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                                                                  |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------|
| Document Number:                                                                                                                                                                                                                                                                                                                                                                                                                                          | Department Number<br>1575                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Project Number<br>EP70300352<br>EP70350354 | Report Number<br>1                                                               | (Place additional D.N.s<br>in Abstract area) |
| To                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Y.T. Shih - OH&ESD - 260-3B-08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            | Date Typed                                                                       | 1-10-92                                      |
| Author(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | D. J. Larsen - OH&ESD - 260-3B-08, M. J. Thornton - 260-3B-08                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            | Employee Number(s)                                                               | 287513, 293310                               |
| Division/Department                                                                                                                                                                                                                                                                                                                                                                                                                                       | OH&ESD Gas & Vapor Laboratory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CC<br>01                                   | Loc<br>089                                                                       | Organization Code<br>OH&ESD                  |
| Project Description                                                                                                                                                                                                                                                                                                                                                                                                                                       | Monitors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |                                                                                  |                                              |
| Report Title                                                                                                                                                                                                                                                                                                                                                                                                                                              | Diffusion Monitor Technical Report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            |                                                                                  | Period Covered<br>1991                       |
| Keywords                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Diffusion, monitor, organic solvent, mercury, formaldehyde, ethylene oxide, methylene chloride, activated carbon, carbon loaded polyethylene, carbon monoxide                                                                                                                                                                                                                                                                                                                                                             |                                            |                                                                                  |                                              |
| <b>Project Objective &amp; Report Abstract</b><br><br>Accomplishments of the 1991 Diffusion Monitor program include selection of a replacement carbon for the Organic Vapor Monitors, resolving the formaldehyde low bias, improving the quality control for the 3510 monitor analysis, obtaining approval for the 3530 OVM (OVM with back-up and analysis), evaluation of a carbon monoxide monitor and validation of the OVM for a number of compounds. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                                                                  |                                              |
| <b>CONFIDENTIAL MATERIAL SUBJECT<br/>TO PROTECTIVE ORDER</b>                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                                                                  |                                              |
| Report Type                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> R & D Research and Development<br><input type="checkbox"/> Pilot Plant<br><input type="checkbox"/> Manufacturing<br><input type="checkbox"/> Management Summary<br><input type="checkbox"/> TRP Trip or Field Report<br><input type="checkbox"/> Factory Experiment<br><input type="checkbox"/> Engineering<br><input type="checkbox"/> ROI Record of Invention<br><input type="checkbox"/> Tech. Service<br><input type="checkbox"/> Govt. Project<br><input type="checkbox"/> OTHER |                                            |                                                                                  |                                              |
| Security                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> Open Report and Summary<br>(Company Confidential)                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | <input type="checkbox"/> Closed Report - Open Summary<br>(Special Authorization) |                                              |
| 3M Chemical Registry                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> New Chemicals Reported<br>Use form 6092 to enter into Chemical Registry                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |                                                                                  |                                              |
| Notebook Reference                                                                                                                                                                                                                                                                                                                                                                                                                                        | 91840, 93471, 91495, 92661, 93961                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            | For P & TCS<br>Use Only                                                          | Film Code<br>Number of Pages                 |
| Information Liaison Initials                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>3M Restricted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                                                                                  | P & TCS Editor Initials                      |

If report is printed on both sides of paper, send two copies to P & TCS.

CONFIDENTIAL MATERIAL SUBJECT  
TO PROTECTIVE ORDER

3M 009073