

FILE NAME: Ford (FD)

DATE: 1977-1978

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WRITERS  
JT

November 8, 1977

Larry Wartels  
2550 Green Valley Road  
Los Angeles, Ca 90046

Ford Motor Company  
Dearborn, Michigan

Dear Sirs:

Can you please send any information concerning the substitution of other materials for asbestos in the use of brake pads and clutches; considering the carcinogenic possibility and asbestosis possibility due to the ambient spread of the material from automobiles? If you do not have such data, can you give me the name and address of your supplier of asbestos containing material?

Thankyou for your assistance,

*Larry Wartels*  
Larry Wartels

003313

PQ



Safety Standards and Regulations 1-12-78

Mr. J. H. Hagman

My sources for information were  
the author of one of the SAE papers  
who works at the Scientific  
Laboratory, Mr. A. E. Anderson,  
Extension 75059 and Mr. D. F.  
Fiscus of Advanced Chassis,  
Extension 78766.

*RE Kimin*

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FORD PARTS AND SERVICE DIVISION TWO-WAY MEMO

REFERENCE  
NUMBER

|                                                |                 |                                |
|------------------------------------------------|-----------------|--------------------------------|
| TO: <i>SAE</i>                                 | ATTN: <i>RE</i> | SUBJECT: <i>CUSTOMER INPUT</i> |
| STATION                                        | LOCATION        |                                |
| <i>SAE</i>                                     | <i>275</i>      | <i>WFO</i>                     |
| <input checked="" type="checkbox"/> <i>WFO</i> | <i>11/14/77</i> | <i>645</i>                     |

The attached customer letter has been received by the Owner Relations Operations Department. We are forwarding the letter to your activity for assistance in providing an appropriate response.

☐ Please provide information indicated which is essential for our response.

☐ Please reply directly to the customer and send a carbon copy to this office.

☐ For your reply. Carbon copy to this office not required.

☒ Other: *Please provide information for our research*

Signed *[Signature]* At Owner Relations Operations Dept.  
Room 816 - Parklane Towers West Ext. 322-4337

YOUR INPUT REQUIRED TO ASSIST A FORD PRODUCT OWNER  
PLEASE PRINT REPLY BELOW

The possibility of carcinogenic effects and asbestosis due to the

**R** ambient spread of asbestos from automobiles is minute. The reason  
for this finding is that the asbestos in brake and clutch linings  
is converted to a non-fibrous material by the high temperature

**E** involved in normal vehicle usage. Therefore, the automobile is not  
significant as a source of free asbestos.

**P** Ford has examined the total process of providing asbestos lining  
materials on its vehicles. From a medical standpoint, problems from  
exposure to asbestos may have to be overcome in the mine, in the making  
of the linings and in our supplier plants. Free asbestos from vehicle  
**L** usage and brake service is not considered a problem.

Mr. E. J. Selikoff is an internationally recognized authority on this

**Y** subject and has agreed with these findings. His works are referenced  
in an SAE paper on the subject. (SAE 730549 - Asbestos Emissions from

Signed *[Signature]* Dept. *Safety & Health* Date *1-13-78*  
Division *SAE* Location *WFO 275*

364-123 JUL 77

2 - RECIPIENT - RETURN TO SENDER WITH COPY

003315

MICROFILM  
REFERENCE

Brake Dynamometer Tests by A. E. Anderson, R. L. Gealer,  
R. C. McCune and J. W. Sprys). The EPA conducted  
research that resulted in similar findings (Report No.  
68-04-0020 Brake Emissions). The EPA report is summarized  
in another SAE Paper (SAE 730548 - Brake and Clutch  
Emissions Generated During Vehicle Operation by M. G.  
Jacko, R. T. DuCharme and J. H. Somers).

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## BIBLIOGRAPHY

| <u>Article</u>                                                                                                                     | <u>Author</u>                                                                                                              |                  |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------|
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| 2. Exposure to Asbestos During Brake<br>Maintenance                                                                                | D.E. Hickish and Kili Knight<br>Medical Services, Ford of<br>Britain                                                       | 1970             |
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| 4. How Much Asbestos do Vehicles Emit?                                                                                             |                                                                                                                            | 6/73             |
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| 8. Airborne Asbestos in the Vicinity<br>of a Freeway                                                                               | J. Alste, D. Watson and J. Bagg<br>University of Melbourne                                                                 | 1976             |
| 9. Asbestos Content of Dust Encountered<br>In Brake Maintenance and Repair                                                         | Rohl, Langer, Klimentidis<br>Wolff, and Selikoff - Mt<br>Sinai School of Medicine                                          | January<br>1977  |
| 10. On the Utility of Dark Field Electron<br>Microscopy in Determination of the<br>Degree of Deformation in Chrysotile<br>Asbestos | K. Seshan<br>U. S. Dept of Energy                                                                                          | October<br>1977  |

003317

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|-----|---------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------|
| 11. | A characterization of Chrysotile Asbestos                                                   | K. Seshan, Glenn Smith                                           | 1977          |
| 12. | Automobile Brake Linings May be a Health Hazard                                             | American Industrial Hygiene Association                          | April 1978    |
| 13. | A Study of Airborne Asbestos Fibers in Connecticut                                          | Leonard Bruckman<br>Connecticut Dept of Environmental Protection | November 1978 |
| 14. | Description of Brake Materials, Work Practices and Exposure Levels During Brake Maintenance | William Nicholson<br>Environmental Sciences Laboratory           | January 1979  |
| 15. | Asbestos and Health: Present Situation in the Friction Material Industry                    | Heinz Doussier<br>Asbestos International Association             | July 1979     |
| 16. | Asbestos Cancer, Past and Future Hazard                                                     | J. C. Gilson                                                     | February 1972 |
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| 19. | Occupational Lung Disease - Agents of Inorganic Origin                                      | J. C. Wagner                                                     | 1977          |
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| 21. | Diseases Associated with Exposure to Asbestos Dust                                          | J. C. Wagner                                                     | 1979          |

003318