Inter Office

Personnel and Organization Staff

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March 9, 1976

Subject: Asbestos Fiber Emission Test - American Cleaning Corporation Vacuum Cleaner

As requested, we evaluated asbestos fiber emissions from the subject vacuum cleaner. Results are attached.

The vacuum tested is intended to be marketed under the Rotunda label for use in cleaning asbestos laden brake lining dust. We subjected the vacuum to our standard asbestos vacuum cleaner procedure. During the first test series, the disposal bag ruptured, but in the second and third series we encountered no problems with the bags.

Results of air samples taken during the test series exceeded the present OSHA Threshold Limit Value in two samples and exceeded the Threshold Limit Value effective July 1, 1976, in seven of the nine air samples taken. Therefore, we recommend that the vacuum be rejected at this time. It should be noted, that the failure of this vacuum is not so severe as to preclude further consideration if improvements are made by the manufacturer.

H/Henry B. Lick

Henry B. Lick
Senior Industrial Hygienist
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Data Sheet

Asbestos Efficiency Test

American Cleaning Corporation Vacuum Cleaner

Remarks	Concentration of Fibers Greater than 5 Microns in Length/Milliliters of Air
OSHA 8 hour Threshold Limit Value	5
" " " " " " effective July 1, 1976	2
Test No. 1	
1. Operator breathing zone air sample	3.4
2. North general air sample	7.0
3. South general air sample	3.7
Test No. 2	
1. Operator breathing zone air Sample	1.4
2. North general air sample	2.7
3. South general air sample	3.7
Test No. 3	
1. Operator breathing zone air Sample	1.7
2. North general air sample	3.9
3. South general air sample	5.7

Note: Room size 880 ft^3 - samples taken equidistant from vacuum cleaner

Instrumentation: MSA Model G pumps and Millipore membrane type AA37mm filter

Analysis: 430X Phase microscopy by Kettering Laboratories, University of Cincinnati Medical Center

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