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Raybestos Manhattan

CORPORATE HEADQUARTERS
100 OAKVIEW DRIVE, TRUMBULL, CONNECTICUT 06611, U.S.A. (203) 371-0101

JOHN H. MARSH
DIRECTOR OF ENVIRONMENTAL AFFAIRS

October 29, 1976

Mr. Barry Castleman
17 Riggs Place, N.W.
Washington, D.C. 20009

Dear Barry:

As I mentioned to you on the telephone, work practice instructions are included with every package of brake lining shipped from our factories. In some cases a card is inserted in the package with the brake lining. In other cases, a stick-on label combining the required OSHA caution label and the work practice instructions is used. Samples of both are enclosed.

When inquiries are received from the field, we routinely supply the AIA booklet "Recommended Work Practices in the Fabrication and Use of Asbestos Friction Materials".

Other materials sent out include the booklet "What You Should Know About Asbestos and Health", a one page instruction sheet "Recommended Procedure for Reducing Asbestos Dust During Brake Servicing", lists of suppliers of protectiveequipment, protective clothing, cleaning equipment, sources of information on design and control of local exhaust systems and laboratories and consultants offering asbestos dust monitoring services. Copies of these documents are enclosed.

We have developed a new instructional film for brake service mechanics which includes an 8 minute segment on safe working practices when handling asbestos containing friction materials, and we have offered to cooperate with publishers of trade magazines on educational articles, (emphasizing safe work practices) for brake service mechanics.

We hope these efforts on our part will alert the brake service mechanic to the necessity for observing proper work procedures.

Again, let me thank you for your suggestion concerning the use of the instruction card.

Sincerely,

/as
Enclosure
cc: Mr. R. H. Mereness
Mr. I. H. Weaver
Mr. P. I. Lee

Castleman 4/29/83 4C

RECOMMENDED PROCEDURES FOR REDUCING ASBESTOS DUST DURING BRAKE SERVICING

Because studies have indicated that exposure to excessive amounts of asbestos dust may be a potential health hazard, OSHA has set maximum limits of levels of airborne asbestos dust to which workers may be exposed. Since most automotive friction materials normally contain a sizable amount of asbestos, it is important that people who handle brake linings and clutch facings understand the nature of the problem and know the precautions to be taken.

1. Areas where brake work is done should be set aside if possible, and entrances should be posted with an asbestos exposure sign as follows:

Asbestos
Dust Hazard
Avoid Breathing Dust
Wear Assigned Protective Equipment
Do Not Remain in Area Unless Your Work Requires It
Breathing Asbestos Dust May Be Hazardous To Your Health

2. The amount of asbestos in the dust from brake lining wear is normally at an extremely low level because of chemical breakdown during use, and if machining of friction material *does not* take place, simple procedures will minimize exposure. During brake servicing, the mechanic should wear an air purifying respirator, either a throwaway or one with replaceable particulate filter(s), as approved by the mining Enforcement and Safety Administration or NIOSH. It should be worn during all procedures starting with the removal of the wheels and including reassembly.

3. During disassembly, all parts should be carefully placed on the floor to minimize the possibility of creating airborne dust. Dust should first be cleaned from the brake drums, brake backing plates and brake assemblies using an industrial type vacuum cleaner equipped with a high efficiency filter system. After vacuum cleaning, any remaining dust should be removed by using a rag soaked in water and wrung until nearly dry. Under no circumstances should compressed air or dry brushing be used for cleaning.

4. Of extreme importance are the precautions which must be taken during machining of friction material. This is the operation in brake servicing when exposure to asbestos dust is at its highest. In addition to the approved respirator, there must be local exhaust ventilation such that the worker exposures are maintained at least below the 1976 OSHA asbestos standards. If there is any question as to the efficiency of asbestos dust removal by the machine, the manufacturer should be contacted.

5. Industrial vacuum cleaner bags containing asbestos dust and cloths used for wiping brake assemblies should be sealed in plastic bags and labeled with the following warning label printed in letters of sufficient size and contrast to be readily visible and legible:

Caution
Contains Asbestos Fibers
Avoid Breathing Dust
Breathing Asbestos Dust May Cause Serious Bodily Harm

All asbestos waste should be disposed of in accordance with the OSHA asbestos regulation. During removal of vacuum bags, an approved respirator, as described in (2) above should be worn.

6. All floor cleaning in areas where brakes are repaired should be done with the high efficiency industrial vacuum cleaner as described in (3) above. Under no circumstances should dry sweeping take place. Grinding (arcing) machines should also be cleaned with such a vacuum cleaner and any remaining dust wiped with a damp cloth. An approved respirator, as described previously should be used during this cleaning.

7. Although adherence to the above procedures should minimize any contamination of work clothing, it is necessary that the appropriate sections of the OSHA regulations on asbestos be followed when ceiling levels on asbestos dust exceed current standards. This could involve special clothing, change rooms, etc. At the very least the work clothes should not be taken home but should remain at work for industrial laundering.

8. Proper hygiene practices will help minimize exposure to asbestos dust. Wash thoroughly before eating and do not eat in the work area. Remember, smoking is harmful to the health, and smoking coupled with breathing asbestos dust is extremely dangerous.

CAUTION: DO NOT BREATHE ASBESTOS DUST

CAUTION

CAUTION — ASBESTOS DUST HAZARD

CONTAINS ASBESTOS FIBERS — AVOID CREATING DUST
BREATHING ASBESTOS DUST MAY CAUSE SERIOUS BODILY HARM

IMPORTANT

Do **NOT** Breathe Dust
Do **NOT** Use Air Hose for Cleaning
Do **NOT** Machine Without Dust Collection Equipment

DO Use Vacuum or Wet Cleaning Methods
DO Dispose of Dust in Sealed Container
DO Wear Mask if Unable to Avoid Dust

For Further Information Contact: Environmental Affairs Department, Raybestos-Manhattan, Inc.
TRUMBULL, CONN. 06611

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