

Material Safety Data Sheet

Product Name - Cured Organic Disc Pad - Asbestos

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Cured Organic Disc Pad - Asbestos

OTHER/GENERIC NAMES: Cured Disc pad, Organic. Formula: Mixture of proprietary ingredients; See Section 2.
Edge Code: XE, XER, XK, XU, XUR, XY

PRODUCT USE: Motor Vehicle Braking Systems

MANUFACTURER: AlliedSignal Braking Systems - Americas
401 North Bendix Drive
South Bend, IN 46634

FOR MORE INFORMATION CALL:
(Monday-Friday, 9:00am - 4:30pm)
AlliedSignal Braking Systems
Health, Safety & Environmental Quality
(219) 237 - 2635

IN CASE OF EMERGENCY CALL:
(24 Hours/Day, 7 Days/Week)
Medical Emergency:
(810) 626-9040 Dr. L. Paul
Spill Response:
TESAC: (201) 455-2000

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Cured Polymer Resin encapsulating the following:	None	Balance
Asbestos - Processed Chrysotile	12001-29-5	20-50%
Calcium Carbonate	1317-65-3	5-10%
Barium Sulfate	7727-43-7	5-20%
Aluminum Oxide	1344-28-1	2-5%
Magnesium Oxide	1309-48-4	2-5%
Carbon Black	1333-86-4	2-5%
Graphite	7782-42-5	2-5%
Iron Oxide	1309-37-1	2-5%

Trace impurities and additional material names not listed above may also appear in Section 15 towards the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Disc brakes are not normally considered hazardous, however, toxic and irritating materials may be released in a fire.

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POTENTIAL HEALTH HAZARDS

SKIN: Some persons may be sensitive to partially cured phenolic or cashew resins and develop dermatitis-like reactions similar to poison ivy.

EYES: Exposure to dust may cause eye irritation.

INHALATION: Irritation or soreness in throat, nose and respiratory tract. See delayed effects below.

INGESTION: Not an anticipated route of entry.

DELAYED EFFECTS: Medical literature indicates that no adverse health effects have been associated with exposure to or the proper use of asbestos-containing friction materials. However, the inhalation of concentrations of airborne asbestos fibers in excess of OSHA limits may cause serious bodily harm, such as asbestosis, lung cancer or mesothelioma. These diseases may not be recognized until many years after exposure. Medical literature indicates that people who smoke are at significantly increased health risk when working with airborne asbestos fibers.

Ingredients found on one of the OSHA designated carcinogen lists are listed below.

<u>INGREDIENT NAME</u>	<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA LIST</u>
Asbestos - Processed Chrysotile	Yes	Yes	Yes

4. FIRST AID MEASURES

**** If any of the symptoms persist, seek medical attention immediately. ****

SKIN: Wash skin with soap and water after handling parts. Seek medical attention for persistent irritation.

EYES: Flush eyes with cool running water if dust becomes embedded. Seek medical attention if reddening persists.

INHALATION: Remove affected person to fresh air.

INGESTION: Not an anticipated route of entry.

ADVICE TO PHYSICIAN: No specialized first aid or medical treatment procedures are required.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: None.

FLASH POINT METHOD: Not applicable.

AUTOIGNITION TEMPERATURE: Not established.

UPPER FLAME LIMIT (volume % in air): Not applicable.

LOWER FLAME LIMIT (volume % in air): Not applicable.

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FLAME PROPAGATION RATE (solids): Not established.

OSHA FLAMMABILITY CLASS: Not classified as flammable material by OSHA.

EXTINGUISHING MEDIA: No special media required.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic and irritating materials may be released in a fire.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS: Self Contained Breathing Apparatus (SCBA) recommended if articles are involved in a fire.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE:

Always wear recommended personal protective equipment. No special precautions are required for intact packaging containing this product. If product is crushed, use respiratory protection equipment. Do not dry sweep product or use compressed air to clean up any residues. Use a wet method or vacuums equipped with High Efficiency Particulate (HEPA) filters to clean up any residues from this product. Waste must be placed in dust tight containers or sealed plastic bags for disposal. Label properly.

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE

NORMAL HANDLING:

Always wear recommended personal protective equipment. Avoid breathing or creating dust. See Section 16 "Other Information" and follow the OSHA Appendix F to 1910.1001 "Work Practices and Engineering Controls for Automotive Brake and Clutch Inspection, Disassembly, Repair and Assembly - Mandatory".

STORAGE RECOMMENDATIONS: No special requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

This friction material product, as shipped, is not considered hazardous, but machining (arcing, grinding, drilling or chamfering) may create airborne asbestos fiber concentrations in excess of the OSHA Permissible Exposure Limit (PEL) and should be considered hazardous. If airborne asbestos fiber concentrations exceed the OSHA PEL, NIOSH-approved respirators should be worn and proper engineering controls implemented. If the product is ground or machined, local exhaust to control exposure to airborne asbestos fibers or dusts is recommended. The work should be monitored to determine whether employee exposures exceed the OSHA PEL in accordance with OSHA 29 CFR 1910.1001.

Packages containing this friction material product should be labeled as follows:

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DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUSTS
CANCER AND LUNG DISEASE HAZARD

Standard industrial hygiene practices, including housekeeping and vacuuming with High Efficiency Particulate (HEPA) filters or wet cleaning work surfaces to prevent asbestos fibers or dust from becoming airborne should be implemented and maintained.

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION:

Protective clothing should be worn in accordance with OSHA 29 CFR 1910.1001 (h) "Protective Work Clothing and Equipment" and OSHA 29 CFR 1910.1001 (i) "Hygiene Facilities and Practices". Gloves are recommended when handling or removing brake parts.

EYE PROTECTION:

Safety glasses are adequate for all uses.

RESPIRATORY PROTECTION:

If the OSHA PEL for asbestos is exceeded, respiratory protection shall comply with OSHA 29 CFR 1910.1001 (g), "Respiratory Protection". Self Contained Breathing Apparatus (SCBA) should be used if dusts are created due to fire or explosion.

ADDITIONAL RECOMMENDATIONS:

See additional recommendations in Section 16 "Other Information" below, and follow attached 29 CFR 1910.1001, Appendix F "Work Practices and Engineering Controls for Automotive Brake and Clutch Inspection, Disassembly, Repair and Assembly - Mandatory".



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EXPOSURE GUIDELINES

<u>INGREDIENT NAME</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER LIMIT</u>
Asbestos - Processed Chrysotile	0.1 f/cc	0.1 f/cc	1.0 f/cc STEL
Calcium Carbonate	10 mg/m3 total dust - TWA	15 mg/m3 total dust - TWA 5 mg/m3 respirable dust - TWA	None
Barium Sulfate	10 mg/m3 total dust - TWA	10 mg/m3 total dust - TWA	None
Aluminum Oxide	10 mg/m3 total dust - TWA	None	None
Magnesium Oxide	10 mg/m3 total dust - TWA	10 mg/m3 total dust - TWA	None
Carbon Black	3.5 mg/m3 TWA	3.5 mg/m3 TWA	None
Graphite	2.5 mg/m3	2.5 mg/m3	None
Iron Oxide	10 mg/m3	10 mg/m3	None

* = Workplace Environmental Exposure Level (AIHA).

** = Biological Exposure Index (ACGIH).

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Gray or dark solid brake part.
PHYSICAL STATE:	Solid
MOLECULAR WEIGHT:	May vary based on concentration of components.
CHEMICAL FORMULA:	May vary based on concentration of components.
ODOR:	Mild odor.
SPECIFIC GRAVITY (water = 1.0):	1.6 - 2.3 gm/cc
SOLUBILITY IN WATER (weight %):	None
pH:	Not established.
BOILING POINT:	Not applicable.
MELTING POINT:	Not applicable.
VAPOR PRESSURE:	Not applicable.
VAPOR DENSITY (air = 1.0):	No volatiles in product.
EVAPORATION RATE:	Not applicable.
% VOLATILES:	None
FLASH POINT:	None
(Flash point method and additional flammability data are found in Section 5.)	
COMPARED TO:	None

10. STABILITY AND REACTIVITY

NORMALLY STABLE? (CONDITIONS TO AVOID):

Product is stable.

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INCOMPATIBILITIES:

None.

HAZARDOUS DECOMPOSITION PRODUCTS:

Toxic and irritating materials may be released in a fire.

HAZARDOUS POLYMERIZATION:

None.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

Skin and eye irritation may occur on repeated contact with dusts.

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

Medical literature indicates that no adverse health effects have been associated with exposure to or the proper use of asbestos-containing friction materials. However, the inhalation of concentrations of airborne asbestos fibers in excess of OSHA limits may cause serious bodily harm, such as asbestosis, lung cancer or mesothelioma. These diseases may not be recognized until many years after exposure. Medical literature indicates that people who smoke are at significantly increased health risk when working with airborne asbestos fibers. No sub-chronic effects likely.

OTHER DATA: None

12. ECOLOGICAL INFORMATION

Normal decomposition is not expected to result in ecological damage.

13. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded? No

If yes, the RCRA ID number is:

OTHER DISPOSAL CONSIDERATIONS:

Dispose in accordance with all applicable federal, state and local regulations.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

US DOT HAZARD CLASS: None

US DOT ID NUMBER: None

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For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: Articles are manufactured from materials found on the TSCA Inventory.

OTHER TSCA ISSUES: Section 12 b export rules apply to asbestos articles.

SARA TITLE III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

<u>INGREDIENT NAME</u>	<u>SARA/CERCLA RQ (LB)</u>	<u>SARA EHS TPQ (LB)</u>
Asbestos - Processed Chrysotile	1 pound	None

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: Product as shipped - None

SARA 313 TOXIC CHEMICALS:

The following ingredients are SARA 313 "Toxic Chemicals". CAS numbers and weight percents are found in Section 2.

<u>INGREDIENT NAME</u>	<u>COMMENT</u>
Asbestos - Processed Chrysotile	

STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

<u>INGREDIENT NAME</u>	<u>WEIGHT %</u>	<u>COMMENT</u>
Asbestos - Processed Chrysotile	20 - 50 %	

ADDITIONAL REGULATORY INFORMATION:

The finished units of friction material shipped to you contain encapsulated asbestos fiber which is not friable. Subsequent processing (arc-ing, grinding, drilling or chamfering) may create a potential for the release of asbestos-containing dust or airborne fiber to the atmosphere (e.g. from your dust collection system if you grind our product) or to a landfill (e.g. if you dispose of wetted or pelletized grinding dust or drill chips). If they are of sufficient quantities, you may be required to report such "Releases" on EPA Form "R".

WHMIS CLASSIFICATION (CANADA):

This article is not a controlled product unless physically altered (i.e. drilling, grinding, chamfering, etc.).

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FOREIGN INVENTORY STATUS:

Various.

16. OTHER INFORMATION

CURRENT ISSUE DATE: 11/10/95

PREVIOUS ISSUE DATE: 09/14/92

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:

These changes are the result of the adoption of the ANSI 16 Section MSDS format, the revised OSHA asbestos standard and the inclusion of the "Work Practices and Engineering Controls for Brake and Clutch Inspection, Disassembly, Repair and Assembly - Mandatory" (29 CFR 1910.1001, Appendix F) as an attachment.

Other Information:

1. Always follow the "Work Practices and Engineering Controls for Brake and Clutch Inspection, Disassembly, Repair and Assembly - Mandatory" (29 CFR 1910.1001, Appendix F). Although some friction materials used for brake service still contain asbestos, most suppliers are replacing asbestos with steel, mineral, and/or synthetic fibers. Because long term medical effects of these fibers are unknown, it is suggested that exposure levels be controlled for all replacement friction materials.
2. Whenever possible, purchase friction materials that are preground and ready for installation. If machining is necessary, there is a possibility that the Permissible Exposure Limit (PEL) for one or more of the ingredients in the friction material may be exceeded. Local exhaust ventilation must be provided so that worker exposures are maintained below the PEL. Local exhaust ventilation consists of dust collection hoods or enclosures connected by ductwork or piping to a pollution control device.
3. In certain grinding operations where concentrations cannot be reduced below the PEL, a respirator program should be implemented. Respirators also may be required during certain maintenance, start-up or emergency situations where engineering controls cannot maintain concentrations below the PEL.
4. Good housekeeping is essential in a workplace where friction materials are handled. Vacuums equipped with High Efficiency Particulate (HEPA) filters should be used to remove accumulations of friction dusts and wastes. **Never use compressed air or dry sweeping for cleaning.**
5. Good personal hygiene practices are important in minimizing dust exposures. Do not smoke. Wash before eating. If the PEL is exceeded, protective equipment should be worn. Change into work clothes upon arrival at work and change from work clothes at conclusion of work.

**DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUSTS
CANCER AND LUNG DISEASE HAZARD**

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Appendix F to § 1910.1001 – Work Practices and Engineering Controls for Automotive Brake and Clutch Inspection, Disassembly, Repair and Assembly – Mandatory

This mandatory appendix specifies engineering controls and work practices that must be implemented by the employer during automotive brake and clutch inspection, disassembly, repair, and assembly operations. Proper use of these engineering controls and work practices will reduce employees' asbestos exposure below the permissible exposure level during clutch and brake inspection, disassembly, repair, and assembly operations. The employer shall institute engineering controls and work practices using either the method set forth in paragraph [A] or paragraph [B] of this appendix, or any other method which the employer can demonstrate to be equivalent in terms of reducing employee exposure to asbestos as defined and which meets the requirements described in paragraph [C] of this appendix, for those facilities in which no more than 5 pairs of brakes or 5 clutches are inspected, disassembled, reassembled and/or repaired per week, the method set forth in paragraph [D] of this appendix may be used:

[A] Negative Pressure Enclosure/HEPA Vacuum System Method.

- (1) The brake and clutch inspection, disassembly, repair, and assembly operations shall be enclosed to cover and contain the clutch or brake assembly and to prevent the release of asbestos fibers into the worker's breathing zone.
- (2) The enclosure shall be sealed tightly and thoroughly inspected for leaks before work begins on brake and clutch inspection, disassembly, repair, and assembly.
- (3) The enclosure shall be such that the worker can clearly see the operation and shall provide impermeable sleeves through which the worker can handle the brake and clutch inspection, disassembly, repair and assembly. The integrity of the sleeves and ports shall be examined before work begins.
- (4) A HEPA-filtered vacuum shall be employed to maintain the enclosure under negative pressure throughout the operation. Compressed air may be used to remove asbestos fibers or particles from the enclosure.
- (5) The HEPA vacuum shall be used first to loosen the asbestos-containing residue from the brake and clutch parts and then to evacuate the loosened asbestos-containing material from the enclosure and capture the material in the vacuum filter.
- (6) The vacuum's filter, when full, shall be first wetted with a fine mist of water, then removed and placed immediately in an impermeable container, labeled according to paragraph (j) (2) (ii) of the standard and disposed of according to paragraph (k) of the standard.
- (7) Any spills or releases of asbestos-containing waste material from inside of the enclosure or vacuum hose or vacuum filter shall be immediately cleaned up and disposed of according to paragraph (k) of the standard.

[B] Low Pressure/Wet Cleaning Method

- (1) A catch basin shall be placed under the brake assembly, positioned to avoid splashes and spills.
- (2) The reservoir shall contain water containing an organic solvent or wetting agent. The flow of liquid shall be controlled such that the brake assembly is gently flooded to prevent the asbestos-containing brake dust from becoming airborne.
- (3) The aqueous solution shall be allowed to flow between the brake drum and brake support before the drum is removed.



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- (4) After removing the brake drum, the wheel hub and back of the brake assembly shall be thoroughly wetted to suppress dust.
- (5) The brake support plate, brake shoes and brake components used to attach the brake shoes shall be thoroughly washed before removing the old shoes.
- (6) In systems using filters, the filters, when full, shall be first wetted with a fine mist of water, then removed and placed immediately in an impermeable container, labeled according to paragraph (j) (2) (ii) of this section and disposed of according to paragraph (k) of this section.
- (7) Any spills of asbestos-containing aqueous solution or any asbestos-containing waste material shall be cleaned up immediately and disposed of according to paragraph (k) of this section.
- (8) The use of dry brushing during low pressure/wet cleaning operations is prohibited.

[C] Equivalent Methods

An equivalent method is one which has sufficient written detail so that it can be reproduced and has been demonstrated that the exposures resulting from the equivalent method are equal to or less than the exposures which would result from the use of the method described in paragraph [A] of this appendix. For purposes of making this comparison, the employer shall assume that exposures resulting from the use of the method described in paragraph [A] of this appendix shall not exceed 0.004 f/cc, as measured by the OSHA reference method and as averaged over at least 18 personal samples.

[D] Wet Method

- (1) A spray bottle, hose nozzle, or other implement capable of delivering a fine mist of water or amended water or other delivery system capable of delivering water at low pressure, shall be used to first thoroughly wet the brake and clutch parts. Brake and clutch components shall then be wiped clean with a cloth.
- (2) The cloth shall be placed in an impermeable container, labeled according to paragraph (j) (2) (ii) of the standard and then disposed of according to paragraph (k) of the standard, or the cloth shall be laundered in a way to prevent the release of asbestos fibers in excess of 0.1 fiber per cubic centimeter of air.
- (3) Any spills of solvent or any asbestos-containing waste material shall be cleaned up immediately according to paragraph (k) of the standard.
- (4) The use of dry brushing during the wet method operations is prohibited.

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. In regulated areas where brake work is done and the air quality standard exceeds the OSHA limit, entrances should be posted with a warning sign as follows:

**DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA**

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 a respirator approved by NIOSH for asbestos dust. It should be worn during all procedures starting with the removal of wheels and including reassembly.

3. When removing worn friction materials, remove the accumulated dust in the assemblies with an industrial vacuum cleaner equipped with a high efficiency filter system. If such equipment is not available, dust can be removed with a damp cloth. Do not use compressed air or dry brushing for cleaning unless the assembly is enclosed and properly exhausted.

4. Whenever possible, purchase friction materials pre-ground and ready for installation. If machining is necessary, the precautions which must be taken are of extreme importance. This is the operation in brake service when exposure to asbestos dust may be at its highest. This increases the difficulty in complying with the OSHA standards. In addition to the approved respirator, there must be local exhaust ventilation such that worker exposures are maintained below the 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.

**DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD**

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

6. Good housekeeping is essential in a workplace where asbestos containing materials are handled. Industrial vacuum cleaners equipped with multiple stage high efficiency filters should be used for removing accumulations of asbestos dust and waste. Never use compressed air or dry sweeping for cleaning. Water or other dust suppressants should be applied if brooms are used.

7. Good personal hygiene practices are important in minimizing asbestos dust exposure. Do not smoke. Wash before eating. Shower after work. Change to work clothes upon arrival at work and change from work clothes at conclusion of work. Work clothing should not be taken home. Laundering of asbestos contaminated clothing shall be done so as to prevent release of airborne asbestos fibers in excess of the exposure limits.

CAUTION: DO NOT BREATHE ASBESTOS DUST

Reproduced from the 1986 Friction Materials Standards Institute Automotive Data Book with the warning sign in paragraph 1 and the warning label in paragraph 5 revised to conform to OSHA Standard effective July 21, 1986.