

MERITOR AUTOMOTIVE, INC -- NON-ASBESTOS BRAKE LININGS -- 2530-00-693-1007

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Product Identification  
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Product ID:NON-ASBESTOS BRAKE LININGS

MSDS Date:03/01/1999

FSC:2530

NIIN:00-693-1007

Status Code:A

MSDS Number: CJSQX

=== Responsible Party ===

Company Name:MERITOR AUTOMOTIVE, INC

Address:2135 WEST MAPLE ROAD

City:TROY

State:MI

ZIP:48084

Country:US

Info Phone Num:248-435-9929

Emergency

Phone Num:248-435-9929

Resp. Party Other MSDS Num.:MSDS3

CAGE:TO398

=== Contractor Identification ===

Company Name:MERITOR AUTOMOTIVE, INC

Address:2135 WEST MAPLE ROAD

Box:City:TROY

State:MI

ZIP:48084

Country:US

Phone:248-435-9929

CAGE:TO398

Company Name:MERITOR HEAVY VEHICLE SYSTEMS LLC

Address:2135 W MAPLE RD

Box:City:TROY

State:MI

ZIP:48084

Country:US

Phone:248-435-8207

Contract Num:DLA740-93-M-2139

CAGE:78500

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Composition/Information on Ingredients  
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Ingred Name:

BARIUM SULFATE  
CAS:7727-43-7  
RTECS #:CR0600000  
OSHA PEL:15 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:CLAY

Ingred Name:GRAPHITE

Ingred Name:GLASS FIBERS

Ingred Name:PHENOLIC RESIN  
CAS:108-95-2  
RTECS #:SJ3325000  
OSHA PEL:19 MG/M3;5 PPM  
ACGIH TLV:19 MG/M3;5 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:STEEL FIBERS (IRON)

Ingred Name:ALUMINUM OXIDE  
CAS:1344-28-1  
RTECS #:BD1200000  
OSHA PEL:15 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:COPPER  
CAS:7440-50-8  
RTECS #:GL5325000  
OSHA PEL:1 MG/M3  
A  
CGIH TLV:1 MG/M3  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
ACGIH TLV:2 MG/M3

Ingred Name:QUARTZ  
CAS:14808-60-7  
RTECS #:VV7330000  
OSHA PEL:see Table Z-3  
ACGIH TLV:0.1 MG/M3

Ingred Name:MINERAL WOOL FIBER

Ingred Name:CRISTOBALITE  
CAS:14464-46-1  
RTECS #:VV7325000  
OSHA PEL:see Table Z-3  
ACGIH TLV:0.05 MG/M3

Ingred Name:WOLLASTONITE  
CAS:13983-17-0  
RTECS #:ZC9750000

TLV:10 MG/M3

Ingred Name:FIBERFRAX (CERAMIC FIBER)

CAS:1302-76-7

RTECS #:BD1450000

Ingred Name:MOLYBDENUM DISULFIDE

CAS:1317-33-5

RTECS #:QA4697000

Ingred Name:ARAMID FIBER

CAS:24938-64-5

RTECS #:TQ9875000

Ingred Name:MAGNESIUM OXIDE

CAS:1309-48-4

RTECS #:OM3850000

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

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===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Haz

ards Acute and Chronic:PROGLONGED EXPOSURE TO DUST MAY RESULT

IN CHRONIC BRONCHITIS, SHORTNESS OF BREATH OR DECREASED LUNG  
FUNCTION. SHORT-TERM EFFECTS FROM INHALATION MAY INCLUDE MUCOUS  
MEMBRANE IRRITATION AND IRRITATION T O THE UPPER RESPIRATOR TRACT.

Explanation of Carcinogenicity:IARC HAD FOUND THAT CRYSTALLINE SILICA,  
AMORPHOUS SILICA, CERAMIC FIBERS, OR WOLLASTONITE MAY CAUSE CANCER  
IN HUMAN. CRYSTALLINE SILICA IS ALSO LISTED BY THE NTP AS A  
SUBSTANCE "WHICH MAY REA  
SONABLY B E ANTICIPATED" TO BE  
CARCINOGENIC.

Effects of Overexposure:SYMPTOMS OF PNEUMO-CONIOSIS, SILICOSIS,  
FIBROSIS AND LUNG CANCER INCLUDE SHORTNESS OF BREATH, DRY  
COUGH,FATIGUE ON EXERCISE,CHEST PAINS,CHEST TIGHTNESS AND VAGUE  
FEELINGS OF SICKNESS. SUCH SYMPTOMS MA Y NOT MANIFEST THEMSELVES  
UNTIL 15 TO 20YEARS OR MORE AFTER FIRST EXPOSURE. SKIN:IRRITATION &  
INFLAMMATION DUE TO MECHANICAL ACTION FROM DUST. EYES:EXPOSURE TO  
DUST MAY CAUSE IRRITATION. REPEATED OR P R

OLONGED EXPOSURE MAY

CAUSE CONJUNCTIVITIS. INHALATION: SHORT TERM EFFECTS MAY INCLUDE MUCOUS MEMBRANE IRRITATION AND IRRITATION TO THE UPPER RESPIRATOR TRACT.

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===== First Aid Measures =====

First Aid:SINCE THE INDIVIDUAL PARTICLES ARE DISPERSED IN A RESIN MATRIX WHICH HAS BEN PROCESSED INTO A THERMOSET COMPOSITE, EMERGENCY AND FIRST AID PROCEDURES FOR INHALATION SHOULD NOT BE NECESSARY. EYES: WAS H EYES IMMEDIATELY WITH LARGE AMOUNT S OF WATER, OCCASIONALLY LIFTING UPPER AND LOWER LIDS. IN CASE OF EYE IRRITATION, GET MEDICAL ATTENTION.

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===== Fire Fighting Measures =====

Extinguishing Media:NEGLIGIBLE FIRE HAZARD IN METALLIC FORM. USE DRY SAND, DRY DOLOMITE, DRY GRAPHITE, SODIUM CHLORIDE. DO NOT USE WATER. AVOID BREATHING FUMES FROM BURNING MATERIALS

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===== Accidental Release Measures =====

Spill Release Procedures:STEPS TO BE TAKEN IN CASE DUST OR WASTE CONTAINING POTENTIALLY HAZARDOUS MATERIALS IS RELEASED OR SPILLED. AVOID CREATING AIRBORNE DUST. USE A VACUUM WITH A HEPA FILTER OR REMOVE BY USING WATER. DO NO T DRY SWEEP OR USE COMPRESSED AIR ON DRY MATERIAL. WEAR PROTECTIVE EQUIPMENT

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===== Handling and Storage =====

Handling and Storage Precautions:OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS SUBSTANCE.

Other Precautions:NONE PROVIDED BY MFR.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR RESPIRATORY PROTECTION AT ALL TIMES DURING BRAKE SERVICING BEGINNING WITH REMOVAL OF THE WHEELS.WEAR A RESPIRATOR EQUIPPED WITH A HIGH-EFFICIENCY (HEPA) FILTER APPROVED BY NIOSH OR MSHA, IF THE E XPOSURE LEVELS EXCEED OSHA OR RECOMMENDED MAXIMUM LEVELS. EVEN WHEN EXPSOURES ARE EXPECTED TO BE WITHIN THE MAXIMUM ALLOWABLE LEVELS, WEARING SUCH A RESPIRATOR

Ventilation:ALL FEAS

ABLE ENGINEERING CONTROLS AND WORK PRACTICES SHOULD  
BE INSTITUTED TO REDUCE WORKER EXPOSURE LEVELS AS LOW AS POSSIBLE

Protective Gloves:PROTECTIVE GLOVES FOR PERSONS SENSITIVE TO PHENOLIC  
RESINS AND FIBERGLASS

Eye Protection:USE OF EYE PROTECTION IS GOOD PRACTICE AT ALL TIMES AND  
NECESSARY WHEN DRILLING

Other Protective Equipment:LONG-SLEEVED SHIRTS AND OTHER PROTECTIVE  
CLOTHING ARE RECOMMENDED FOR PERSONS WITH SKIN SENSITIVE TO  
PHENOLIC RESINS AND FIBERGLASS.

Work Hygienic P

ractices:NONE PROVIDED BY MFR.

Supplemental Safety and Health

NONE PROVIDED BY MFR.

===== Physical/Chemical Properties =====

HCC:T6

Spec Gravity:2-4 GRAMS/CC

Solubility in Water:INSOLUBLE

Appearance and Odor:GRAY-BLACK SOLID

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE PROVIDED BY MFR.

Stability Condition to Avoid:THE INDIVIDUAL PARTICLES ARE DISPERSED IN  
A RESIN MATRIX, WHICH HAS BEEN PROC

ESSED INTO A THERMOSET

COMPOSITE. NO KNOWN REACTIVITY HAZARDS EXIST WHEN THE PRODUCT IS  
USED AS INTENDED

Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY RELEASE  
TOXIC AND/OR HAZARDOUS GASES

Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION HAS NOT  
BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES OR PRESSURES.

===== Disposal Considerations =====

Waste Disposal Methods:OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS  
WHEN S

TORING OR DISPOSING OF THIS SUBSTANCE.

===== Other Information =====

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