

ALLIED AUTOMOTIVE -- MKD153 BRAKE SHOE -- 2530-01-166-6782

===== Product Identification =====

Product ID:MKD153 BRAKE SHOE

MSDS Date:06/15/1989

FSC:2530

NIIN:01-166-6782

MSDS Number: BNWTX

=== Responsible Party ===

Company Name:ALLIED AUTOMOTIVE

Address:1094 BENDIX DRIVE

City:JACKSON

State:TN

ZIP:38301

Country:US

Info Phone Num:901-423-1300

Emergency Phone Num:901-423-1300

Preparer's Name:E. L. RO

GERS

CAGE:14894

=== Contractor Identification ===

Company Name:ALLIED AUTOMOTIVE, ALLIED AFTERMARKET DIV

Address:1094 BENDIX DR

Box:238

City:JACKSON

State:TN

ZIP:38301

Country:US

Phone:901-423-1300

CAGE:14894

===== Composition/Information on Ingredients =====

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS
FORMS) (SARA III)

CAS:1344-28-1

RTECS #:BD1200000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred

Name: BARIUM SULFATE
CAS: 7727-43-7
RTECS #: CR0600000
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 10 MG/M3 TDUST; 9293

Ingred Name: CALCIUM CARBONATE (MARBLE) (LIMESTONE)
CAS: 1317-65-3
RTECS #: EV9580000
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 10 MG/M3 TDUST; 9293

Ingred Name: GRAPHITE, SYNTHETIC
CAS: 7440-44-0
RTECS #: FF5250100
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 2 MG/M3 TDUST; 9293

Ingred Name: MAGNESIUM OXIDE
CAS:
1309-48-4
RTECS #: OM3850000
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 15 MG/M3 PARTICULATE
ACGIH TLV: 10 MG/M3; TDUST; 9293

Ingred Name: CARBON BLACK
CAS: 1333-86-4
RTECS #: FF5800000
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 3.5 MG/M3
ACGIH TLV: 3.5 MG/M3; 9293

Ingred Name: GRAPHITE, NATURAL
CAS: 7782-42-5
RTECS #: MD9659600
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 15 MPPCF RDUST
ACGIH TLV: 2 MG/M3 RDUST; 9293

Ingred Name: SILICATES INCLUDING GLASS FIBERS
Other REC Limits: NONE RECOMMENDED
OSHA PEL:

15 MG/M3 TOTAL DUST
ACGIH TLV:10 MG/M3 TOTAL DUST

Ingred Name:IRON OXIDE
CAS:1309-37-1
RTECS #:NO7400000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG/M3 (FE)
ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:ZINC (SARA III)
CAS:7440-66-6
RTECS #:ZG8600000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG ZNO/M3
ACGIH TLV:10 MG ZNO/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15MG/M3
DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name:FIBERGLASS
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3(TOTAL DUST)
ACGIH TLV:10 MG/M3 (DUST)

Ingred Name:ARAMID
CAS:24938-64-5
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TOTAL DUST
ACGIH TLV:10 MG/M3 TOTAL DUST

Ingred Name:MINERAL WOOL FIBERS
CAS:65996-69-2
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TOTAL DUST
ACGIH TLV:10 MG/M3 TOTAL DUST

Ingred Name:WOLLASTONITE
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M

3 TOTAL DUST
ACGIH TLV:10 MG/M3 TOTAL DUST

Ingred Name:CURED PHENOLIC AND CASHEW RESINS
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TOTAL DUST
ACGIH TLV:10 MG/M3 TOTAL DUST

Ingred Name:SILICA, CRYSTALLINE - QUARTZ
CAS:14808-60-7
RTECS #:VV7330000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE TABLE Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:MICA - SILICATES (< 1% CRYSTALLINE SILICA)
CAS:12001-26-2
RTECS #:VV8760000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:20 MPPCF
ACGIH TLV:3 MG/
M3 RDUST; 9293

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:METAL DUSTS CAN IRRITATE EYES AND
UPPER RESPIRATORY SYSTEM. CURED PHENOLIC/CASHEW RESINS MAY CAUSE
DERMATITIS. CRYSTALLINE SILICA MAY PRODUCE SILICOSIS AND POSSIBLY
CANCER. NON-ASBESTOS FIBERS MAY CAUSE LUNG DISEASE INCLUDING
FIBROSIS.

Explanation of Carcinogenicity:CRYSTALLINE SILICA IS LISTED UNDER IARC
AS SUSPECTED CARCINOGEN.

Effects of Overexposure:PARTIALLY CURED CASHEW RESINS: SKIN ERUPTIONS.
CRYSTALLINE SILICA: COUGHING, WHEEZING, SHORTNESS OF BREATH,
IMPAIRED PULMONARY FUNCTION. DUSTS IN EYE MAY CAUSE IRRITATION.
INGESTION MAY CAUSE GASTROINTESTINAL DISTURBANCES.

Medical Conditions Aggravated by Exposure:INDIVIDUALS WITH A HISTORY OF
RESPIRATORY OR SKIN CONDITIONS MAY BE AT INCREASED RISK.

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First Aid Measures =====

First Aid: EYES: FLUSH WITH PLENTY OF WATER. IF IRRITATION PERSISTS, SEE DOCTOR. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS SEE DOCTOR. INHALATION: REMOVE TO FRESH AIR. SEE DOCTOR. INGESTION: SEE DOCTOR.

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

Extinguishing Media: WATER, EXTINGUISHERS CLASS A, B AND C, FOAM.
Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire/Explosion Hazard: COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures: VENTILATE. CLEAN UP USING METHODS THAT AVOID DUST GENERATION SUCH AS VACUUM, WET DUST MOP OR WET CLEAN UP AND PLACE IN APPROPRIATE DISPOSAL CONTAINER AND COVER. IF DUST IS GENERATED USE NIOSH/MSHA APPROVED RESPIRATOR WITH DUST CARTRIDGE.

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

Handling and Storage Precautions: AVOID CREATING EXCESSIVE DUST. USE DUST COLLECTION IF GRINDING, DRILLING OR ALTERING PRODUCT IN ANY WAY. DO NOT USE COMPRESSED AIR.
Other Precautions: PROTECTIVE CREAMS AND SLEEVES MAY BE NECESSARY FOR EMPLOYEES WITH SENSITIVE SKIN. PERIODIC MEDICAL EXAMINATIONS ARE RECOMMENDED FOR INDIVIDUALS REGULARLY EXPOSED TO DUST.

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

Respiratory Protection: USE NIOSH/MSHA-APPROVED RESPIRATOR WITH DUST CARTRIDGE IF TLV IS EXCEEDED. FOLLOW RESPIRATOR STANDARD 1910.34.
Ventilation: LOCAL EXHAUST TO MAINTAIN EXPOSURE LEVEL BELOW TLV.
Protective Gloves: PROTECTIVE GLOVES.
Eye Protection: SAFETY GLASSES W/SIDE SHIELD OR GOGGLES.
Other Protective Equipment: PROTECTIVE SLEEVES AND CREAMS FOR EMPLOYEES WITH SENSITIVE SKIN.
Work Hygienic Practices: WASH

THOROUGHLY AFTER HANDLING. DO NOT SHAKE CLOTHING. REMOVE DUST BY WASHING OR VACUUMING.

Supplemental Safety and Health

BRAKE LINING IS A RESIN BONDED PRODUCT WHICH DOES NOT CONTAIN ASBESTOS.

WHEN USED AS INTENDED THIS PRODUCT MEETS TH OSHA DEFINITION OF AN ARTICLE AND IS EXEMPT FROM THE HCS. A POTENTIAL FOR EXPOSURE T O DUST WHEN GRINDING, DRILLING, MILLING, ETC., EXISTS AND THEREFORE ALL INFORMATION CONTAINED WITHIN SHOULD BE FOLLOWED.

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

HCC:T6

Spec Gravity:1.6-3.7

Solubility in Water:INSOLUBLE.

Appearance and Odor:BRAKE LINING. SOLID. LIGHT TAN TO DARK GREY COLOR. SLIGHT SOUR ODOR.

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

Stability Indicator/Materials to Avoid:YES

NONE

Hazardous Decomposition Products:CARBON MONOXIDE, SMOKE.

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

Waste Disposal Methods:NOTIFY YOUR LOCAL ENVIRONMENTAL OFFICER. KEEP IN COVERED CONTAINERS PENDING DISPOSAL. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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