

HEMISPHERES INTERNATIONAL MFG CO -- HI 9000 DISC BRAKE PAD -- 2530-01-074-6358

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

Product ID:HI 9000 DISC BRAKE PAD

MSDS Date:01/01/1987

FSC:2530

NIIN:01-074-6358

MSDS Number: BPJHV

=== Responsible Party ===

Company Name:HEMISPHERES INTERNATIONAL MFG CO

Address:420 CANARCTIC DRIVE

City:DOWNSVIEW

State:ON

Country:CA

Info Phone Num:416-661-0391

Emergency Phone Num:416

-661-0391

CAGE:HEMIS

=== Contractor Identification ===

Company Name:HEMISPHERES INTERNATIONAL MFG CO

Address:420 CANARCTIC DRIVE

Box:City:DOWNSVIEW

State:ON

Country:CA

Phone:416-661-0391

CAGE:HEMIS

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

Ingred Name:ASBESTOS (FRIABLE) (SARA III)

CAS:1332-21-4

RTECS #:CI6425000

Fraction by Wt: 30-60%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:SEE 1910.1001

ACGIH TLV:0.2 - 2 FIBERS/CC

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:BA

RIUM SULFATE  
CAS:7727-43-7  
RTECS #:CR0600000  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:RESIN  
Fraction by Wt: 10-15%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:GRAPHITE, NATURAL  
CAS:7782-42-5  
RTECS #:MD9659600  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MPPCF RDUST  
ACGIH TLV:2 MG/M3 RDUST; 9293

Ingred Name:RUBBER  
Fraction by Wt: 1-5%  
Other REC Limits:N  
ONE RECOMMENDED

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE)  
CAS:1317-65-3  
RTECS #:EV9580000  
Fraction by Wt: 10-20%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9293

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:EXPOSURE TO DUSTS OF ASBESTOS, SILICA,  
TALC, GRAPHITE, CARBON & CO

AL CAN LEAD TO CHRONIC LUNG DISEASES

SUCH AS ASBESTOSIS OR OTHER FORMS OF PNEUMOCONIOSIS. IN SEVERE CASES THESE DISEASES CAN BE FATAL. EXPOSURE TO THESE DUSTS MAY ALSO LEAD TO NONDISABLING CONDITIONS KNOWN AS PLEURAL THICKENING, PLAQUES & CALCIFICATION.

Explanation of Carcinogenicity:NTP, IARC AND OSHA HAVE FOUND THAT ASBESTOS CAN CAUSE CANCER IN HUMANS. SMOKING GREATLY INCREASES THE RISK OF CANCER.

Effects of Overexposure:SYMPTOMS OF ASBESTOSIS, PNEUMOCONIOSIS, AND L

UNG CANCER INCLUDE SHORTNESS OF BREATH, DRY COUGH, FATIGUE ON EXERCISE, CHEST PAINS, CHEST TIGHTNESS, CLUBBING OF FINGERS, AND VAGUE FEELINGS OF SICKNESS. SUCH SYMPTOMS DO NOT USUALLY MANIFEST THEMSELVES UNTIL 15 TO 20 YEARS AFTER FIRST EXPOSURE.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING RESPIRATORY DISEASE MAY BE AT INCREASED RISK FROM EXPOSURE TO AIRBORNE ASBESTOS FIBERS. SMOKERS MAY BE AT INCREASED RISK FROM EXPOSURE TO AIRBORNE ASBESTOS FIBERS.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION. SKIN: WASH EXPOSED AREA WITH SOAP AND WATER. GET MEDICAL ADVICE IF IRRITATION DEVELOPS. EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. INGESTION: GET MEDICAL ATTENTION. OTHER: CLOTHING CONTAMINATED WITH ASBESTOS CONTAINING DUST SHOULD BE ISOLATED IN THE WORK AREA UNTIL LAUNDERED. AVOID CONTAMINATION OF OTHER AREAS.

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

Extinguishing Media:WATER OR CLASS A, B, OR C EXTINGUISHER.

Fire Fighting Procedures:COMBUSTION PRODUCTS OF THIS MATERIAL MAY BE TOXIC. USE A SELF CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES INVOLVING CHEMICAL PRODUCTS.

Unusual Fire/Explosion Hazard:NONE KNOWN

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

Spill Release Procedures:ISOLATE BRAKE SERVICING AREAS IF POSSIBLE. USE LOCAL EXHAUST

VENTILATION AT ALL TIMES. CLEAN BRAKE PARTS WITH A VACUUM WITH HEPA FILTER. WIPE WITH DAMP RAGS TO REMOVE ASBESTOS CONTAINING RESIDUE. DISPOSE OF USED RAGS WHILE STILL WET IN SEALED BAGS.

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

Handling and Storage Precautions:CONTAINS ASBESTOS. DO NOT CLEAN PARTS WITH COMPRESSED AIR. AVOID SCRAPING OR SCRATCHING BRAKE LININGS OR OTHERWISE CREATING DUST DURING ASSEMBLY.

Other Precautions:MOLDED ASBESTOS COMPOSITION FRICTION LININGS DO NOT

PRESENT A HAZARD. ONLY WHEN THE PARTS ARE PLACED IN SERVICE ARE THE ASBESTOS FIBERS RELEASED. DO NOT BREATHE AIRBORN ASBESTOS DUST. ISOLATE AND LAUNDEER CONTAMINATED CLOTHING BEFORE REUSE.

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

Respiratory Protection:EXPOSURE TO AIRBORNE ASBESTOS SHALL NOT EXCEED 0.2 F/CC TWA. IF EXPOSURE IS LESS THAN 50 TIMES THE PEL, USE A FULL FACE-PIECE NIOSH/MSHA APPROVED RESPIRATORS WITH A HEPA FILTER FOR

ASBESTOS. MAKE SELECTIONS I/A/W 29CFR1910.1001 & 1910.1101.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION. LOCAL EXHAUST MAY BE REQUIRED FOR ENCLOSED OPERATIONS.

Protective Gloves:PROTECTIVE GLOVES ARE RECOMMENDED.

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS OR GOGGLES

Other Protective Equipment:HATS, FOOT COVERINGS, COVERALLS OR OTHER WHOLE BODY CLOTHING. CHANGE ROOMS WITH SEPARATE LOCKERS FOR WORK CLOTHES.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE

EATING, DRINKING OR SMOKING. DO NOT WASH DUST LADEN CLOTHING WITH OTHER ITEMS.

Supplemental Safety and Health

WORKERS EXPOSED TO ASBESTOS SHALL BE TRAINED ANNUALLY AS TO ITS POTENTIAL HAZARDS AND THE MEANS OF REDUCING THOSE HAZARDS. WORKER'S ASBESTOS EXPOSURE SHALL BE MONITORED EVERY SIX MONTHS IF IT MAY REASONABLY BE EXPECTED TO BE AT OR ABOVE 0.1 F/CC. DO NOT TAKE HOME ANY PROTECTIVE CLOTHING OR EQUIPMENT.

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

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HCC:T6  
Spec Gravity:2.04  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:SOLID, DARK GRAY TO BLACK IN COLOR. MILD ODOR.

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS  
Hazardous Decomposition Products:AIRBORNE ASBESTOS DUST. INCOMPLETE  
COMBUSTION MAY CREATE TOXIC FUMES

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

Waste Disposal Methods:HANDLE USED PARTS TO AVOID CREATING AIRBORNE  
DUST. PLACE USED PARTS IN AN AIRTIGHT CONTAINER, LABEL AND DISPOSE  
IN A LICENSED LANDFILL IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL  
REGULATIONS.

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