

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 N

ame: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:BARIUM SULFATE

CAS:7727-43-7

RTECS #:CR0600000

Fraction by Wt: 5-1

0%
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:NONE 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 & COAL 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 LUNG 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.

===== 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.

===== 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 BREATH AIRBORN ASBESTOS DUST.
ISOLATE AND LAUND ER 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 SELE CTIONS 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
REAS ONABLY BE EXPECTED TO BE AT OR ABOVE 0.1 F/CC. DO NOT TAKE
HOME ANY PROTECTIVE CLOTHING OR EQUIPMENT.

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

HCC:T6

Spec Gravity:2.04

Solubility in Water:NEG

LIGIBLE

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 CO

NTAINER, LABEL AND DISPOSE

IN A LICENSED LANDFILL IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL
REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.