

ROCKWELL INTERNATIONAL CORP GOVERNMENT PRODUCTS -- A1-3822 -- 2530-00-600-6811  
===== Product Identification =====

Product ID:A1-3822

MSDS Date:07/24/1989

FSC:2530

NIIN:00-600-6811

MSDS Number: BPHMJ

=== Responsible Party ===

Company Name:ROCKWELL INTERNATIONAL CORP GOVERNMENT PRODUCTS

Address:2135 W MAPLE RD

City:TROY

State:MI

ZIP:48084-7121

Country:US

Info Phone Num:313-435-1127

Emergency Phon

e Num:313-435-1127

Preparer's Name:BARBARA CLINE

CAGE:78500

=== Contractor Identification ===

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

CAGE:78500

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

Ingred Name:ASBESTOS, CHRYSOTILE

CAS:12001-29-5

RTECS #:CI6478500

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.2 FIBERS/CC

ACGIH TLV:2 FIBERS/CC; A1;9293

Ingred Name:SILICA, CRYSTALLINE - T

RIPOLI  
CAS:1317-95-9  
RTECS #:VV7336000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE TABLE Z3  
ACGIH TLV:0.1 MG/M3 RDUST;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:PHENOLIC RESIN  
Other REC Limits:NONE RECOMMENDED

Ingred Name:WOOD FLOUR  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:1.0 MG/M3

Ingred Name:IRON, ZINC, ALUMINUM & THEIR OXIDES  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG  
/M3 RDUST  
ACGIH TLV:10 MG/M3 RDUST

Ingred Name:COPPER OXIDE  
CAS:1317-38-0  
RTECS #:GL7900000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1.0 MG/M3  
ACGIH TLV:1.0 MG/M3

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:FLUORIDES AS CRYOLITE  
CAS:13775-53-6  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2.5 MG/M3 (AS F)  
ACGIH TLV:2.5 MG/M3 (AS F)

Ingred Name:RUBBER  
Othe

r REC Limits:NONE RECOMMENDED

Ingred Name:BARIUM COMPOUNDS

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.5 MG/M3

===== 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 P

NEUMOCONIOSIS. 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, CHE

ST 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. DISP OSE 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 PLACE D 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.

Vent ilation: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 =====

HCC:T6

Solubility in Water:NEGLIGIBLE

Appearance and Odor:SOLID

, LIGHT TAN TO DARK GRAY IN COLOR. NO CHARACTERISTIC 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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