

ROCKWELL INTERNATIONAL CORP GOVERNMENT PRODUCTS -- BRAKE LININGS CONTAINING ASBESTOS -- 2530-01-017-0616

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

Product ID: BRAKE LININGS CONTAINING ASBESTOS

MSDS Date: 07/24/1989

FSC: 2530

NIIN: 01-017-0616

MSDS Number: BPJGT

=== Responsible Party ===

Company Name: ROCKWELL INTERNATIONAL CORP GOVERNMENT PRODUCTS

Address: 2135 W MAPLE RD

City: TROY

State: MI

ZIP: 48084-7121

Cou

ntry: US

Emergency Phone Num: 313-435-1688

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/ASBESTOS (CHRYSOLITE), TALC

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: SIL

ICA, CRYSTALLINE - TRIPOLI

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 (GRAPHITE, COAL, COKE)

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 (ISOPRENE OR CASHEW)

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5.0 MG/M3 (MFR)

ACGIH TLV:5.0 MG/M3 (MFR)

Ingred Name:WOOD FLOUR/WOOD FLOUR AND OTHER FILLERS

Other R

EC Limits:NONE RECOMMENDED

ACGIH TLV:1.0 MG/M3 (MFR)

Ingred Name:IRON, ZINC, ALUMINUM, MAGNESIUM, AND THEIR OXIDES

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5.0 MG/M3 RDUST(MFR)

ACGIH TLV:5.0 MG/M3 RDUST(MFR)

Ingred Name:COPPER OXIDE

CAS:1317-39-1

RTECS #:GL8050000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1 MG/M3 AS (CU)

ACGIH TLV:0.1 MG/M3 AS (CU)

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:FLUORIDE SALT/FLUORIDES
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2.5 MG/M3
ACGIH TLV:2.5 MG/M3

Ingred Name:RUBBER
Other REC Limits:NONE RECOMMENDED

Ingred Name:BARIUM COMPOUNDS
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 MG/M3 AS BA
ACGIH TLV:0.5 MG/M3 AS BA

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

LD50 LC50 Mixture:TLV FOR ASBESTOS FIBERS 2 FIBER/CC

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

Reports of

Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE AND CHRONIC- MAY CAUSE EYE, SKIN AND/OR UPPER RESPIRATORY TRACT IRRITATION. SOME SENSITIVE PERSONS MAY DEVELOP DERMATITIS. BREATHING OF ASBESTOS FIBERS MAY PRODUCE IRREVERSIBLE LUNG DISEASE AND CANCER. EFFECTS OF EXPOSURE MAY NOT BE IMMEDIATELY EVIDENT. INGESTION OF DUST MAY BE HARMFUL.

Explanation of Carcinogenicity:CONTAINS ASBESTOS.

Effects of Overexposure:SYMPTOMS OF ASBESTOSIS, PNEUMOCONIOSIS & LUNG

CANCER INCLUDE SHORTNESS OF BREATH, DRY COUGH, FATIGUE ON EXERCISE, CHEST PAINS, CHEST TIGHTNESS, CLUBBING OF FINGERS. SYMPTOMS USUALLY MANIFEST AFTER 15-20 YEARS. OTHER SIGNS MAY BE DISCOVERED BY TRAINED MEDICAL PERSONNEL USING X-RAYS, PULMONARY FUNCTION TESTS ETC..

Medical Cond Aggravated by Exposure:PERSONS WITH IMPAIRED RESPIRATORY FUNCTION, WILSON'S DISEASE (FROM COPPER EXPOSURE) MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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

First Aid:GET MEDICAL ATTENTION IF NEEDED. SKIN:WASH WITH SOAP & WATER.
EYE:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN.
INHALED:REMOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED.
ORAL:RINSE MOUTH WITH WATER. CALL A PHYSICIAN.

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

Flash Point:NONE
Extinguishing Media:WATER OR CLASS A, B OR C EXTINGUISHER
Fire Fighting Procedures:WEAR NIOSH-APPROVED SELF-

CONTAINED BREATHING
APPARATUS.

Unusual Fire/Explosion Hazard:BURNING MAY PRODUCE AIRBORNE FIBERS OR
PARTICULATE.

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

Spill Release Procedures:VACUUM FIBERS AND DUSTS, CAREFULLY, AVOIDING
DUSTING. IF SWEEPING IS USED, CONTROL DUST BY WETTING AND USE
APPROPRIATE DUST MASK. VACUUMING WITH A HEPA FILTERED VACUUM IS
PREFERRED. DO NOT USE COMPRES SED AIR FOR CLEANING. WEAR RESPIRATOR
IF NEEDED.

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

Handling and Storage Precautions:STORAGE AND HANDLING- AVOID CREATING
OR BREATHING DUST. AVOID SCRAPING OR SCRATCHING BRAKE LININGS.
Other Precautions:EXPOSURE LEVELS TO DUST CONTAINING ASBESTOS FIBERS
SHOULD BE MONITORED IN ACCORDANCE WITH OSHA REGULATIONS 29 CFR
1910,1001.SMOKING WILL INCREASE RISK FROM ASBESTOS EXPOSURE.THOSE
WORKING WITH PRODUCT S CONTAINING ASBESTOS SHOULD NOT SMOKE.

===== Exposure Controls/Person
al Protection =====

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION
CONDITIONS EXIST. IF DUSTS OR FIBERS PRESENT, A NIOSH-APPROVED DUST
RESPIRATOR IS RECOMMENDED. IF CONCENTRATION EXCEEDS CAPACITY OF
RESPIRATOR, USE SELF-CONTAINED BREATHING APPARATUS.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO
MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:RUBBER RECOMMENDED

Eye Protection:SAFETY GOGGLES

Other Protective Equipment:EYE WASH S
TATION, QUICK DRENCH SHOWER AND
IMPERVIOUS CLOTHING

Work Hygienic Practices:KEEP WORK AREA CLEAN OF ASBESTOS DUST.
Supplemental Safety and Health

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

HCC:T6

Spec Gravity:1.6 - 3.0

Evaporation Rate & Reference:0 (N-BUTYL ACETATE=1)

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID, LIGHT TAN TO DARK GREY IN COLOR

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

Stability Indicator/Materials to Av

oid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:AVOID CREATING AND BREATHING DUST.

Hazardous Decomposition Products:UNBOUND ASBESTOS FIBERS MAY BE
RELEASED ALONG WITH TOXIC FUMES.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE
AND FEDERAL REGULATIONS.

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