

ABEX CORP FRICTION PRODUCTS GROUP -- 931-92, NON-ASBESTOS BRAKE LININGS --  
2530-00-506-9334

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

Product ID: 931-92, NON-ASBESTOS BRAKE LININGS

MSDS Date: 01/09/1989

FSC: 2530

NIIN: 00-506-9334

MSDS Number: BPJCW

=== Responsible Party ===

Company Name: ABEX CORP FRICTION PRODUCTS GROUP

Address: 2610 PAPER MILL RD

Box: 3250

City: WINCHESTER

State: VA

ZIP: 22601-3250

Country: US

Inf

o Phone Num: 703-662-3871/703-665-2270

Emergency Phone Num: 703-662-3842

Preparer's Name: M. K. LEUNG

CAGE: 85117

=== Contractor Identification ===

Company Name: ABEX CORP FRICTION PRODUCTS GROUP

Address: 2610 PAPER MILL RD

Box: 3250

City: WINCHESTER

State: VA

ZIP: 22601-3250

Country: US

Phone: 703-665-2270

CAGE: 85117

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

Ingred Name: GLASS FIBERS

Other REC Limits: NONE RECOMMENDED

OSHA PEL: 10.0 MG/M3 (MFR)

ACGIH TLV: 10.0 MG/M3 (MFR)

Ingred N

ame:SILICA, 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  
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 COMPOUND/PHENOLIC AND ELASTOMER COMPOUNDS  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:19.0 MG/M3 (MFR)  
ACGIH TLV:19.0 MG/M3 (MFR)

Ingred Name:WOOD FLOUR/WOOD FLOUR AND OTHER FILLERS  
Other  
REC Limits:NONE RECOMMENDED  
OSHA PEL:1.0 MG/M3 (MFR)  
ACGIH TLV:1.0 MG/M3 (MFR)

Ingred Name:IRON,ZINC,ALUMINUM,BRASS AND THEIR OXIDES  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3 (MFR)  
ACGIH TLV:10 MG/M3 (MFR)

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

LD50 LC50 Mixture:TLV FOR SILICA IS 0.1 MG/M3.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE & CHRONIC-SOME  
PERSONS MAY BE

SENSITIVE TO CASHEW RESINS & DEVELOP DERMATITIS-TYPE PROBLEMS.DUST  
OF GLASS,SILICA,TALC,GRAPHITE,CARBON BLACK & COAL CAN PRODUCE  
PNEUMOCONIOSIS & OTHER LUNG DAMAGE. METAL DUSTS CAN BE IRRITANTS OF  
THE EYES & UPPER RESPIRATORY SYSTEM.THERE IS LITTLE EVIDENCE OF  
HARM BY FE,AL,ZN DUSTS.

Explanation of Carcinogenicity:THE INTERNATIONAL AGENCY FOR RESEARCH ON  
CANCER (IARC) HAS CLASSIFIED CERAMIC FIBERS,MINERAL WOOL AS  
POSSIBLE CARCINOGEN

Effects of Overexpos

ure: CASHEW RESINS-SKIN ERUPTIONS SIMILAR TO POISON  
IVY. PNEUMOCONIOSIS-COUGHING, WHEEZING, SHORTNESS OF BREATH, IMPAIRED  
PULMONARY FUNCTION. DUSTS IN EYE MAY CAUSE  
IRRITATION. GASTROINTESTINAL DISTURBANCES POSSIBLE FROM  
INGESTION. GLASS FIBER MAY CREATE TRANSIENT MECHANICAL IRRITATION OF  
THE SKIN OF SOME PERSONS.

Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN  
DISORDERS OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE  
MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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===== 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. ORAL: CALL A PHYSICIAN.

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

Flash Point: NONE  
Extinguishing Media: WATER (CLASS A, B, OR C)  
Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND  
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL  
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.  
Unusual Fire/Explosion Hazard: NONE KNOWN

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

Spill Release Procedures: GRINDING, DRILLING, MILLING ETC. CAN RESULT IN  
THE RELEASE OF AIRBORNE DUST. WEAR PROTECTIVE CLOTHING AND  
NIOSH-APPROVED DUST RESPIRATOR. VACUUM OR WET SWEEP TO REMOVE  
SPILLS. TRANSFER TO APPROPRIATE CONTAINERS FOR DISPOSAL. DO NOT  
RAISE DUST.

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

Handling and Storage Precautions: STORAGE- STORE IN COOL PLACE. AVOID  
GENERATING DUSTS.  
Other Precautions: PRE-EMPLOYMENT SCREENING FOR ALLERGIES AND HISTORIES  
OF SKIN SENSITIVITIES MAY BE BENEFICIAL IN DETERMINING PERSONS  
SENSITIVE TO CASHEW MATERIALS.

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

Respiratory Protection: NIOSH-APPROVED FOR PNEUMOCONIOSIS-FIBROSIS  
PRODUCING DUSTS AND DUSTS WITH T

LV NOT LESS THAN 0.05 MG/M3.

Ventilation:LOCAL EXHAUST FOR DUST EXPOSURES EXCEEDING TLV.

Protective Gloves:RECOMMENDED

Eye Protection:RECOMMENDED FOR DUSTY CONDITIONS

Other Protective Equipment:LONG SLEEVE SHIRTS OR OTHER PROTECTIVE CLOTHING, EYE BATH FOUNTAIN, QUICK EMERGENCY SHOWER.

Work Hygienic Practices:EMPLOYEES SHOULD BE PROPERLY INSTRUCTED IN THE USE OF CONTROL MEASURES AS INDICATED ABOVE WHEN THERE IS A NEED FOR IT.

Supplemental Safety and Health

AVOID SCRAPING OR SCRATCHING

BRAKE LININGS OR OTHERWISE CREATING DUST

DURING ASSEMBLY. USE LOCAL EXHAUST VENTILATION AT ALL TIMES.

COMPRESSED AIR SHOULD NOT BE USED FOR CLEANING UP DUST FROM

LININGS. USE HEPA FILTERED VACUUM. USE BARRIER CREAMS FOR PERSONS WITH SKIN SENSITIVE TO CASHEW RESINS AND FIBER GLASS.

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

HCC:N1

Spec Gravity:1.5 - 3.5

Solubility in Water:NO

Appearance and Odor:SOLID, DARK GREY COLOR, FRICTION MATERIAL ODOR

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:NONE KNOWN

Hazardous Decomposition Products:CARBON MONOXIDE AND CARBON DIOXIDE

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

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

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