

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

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

Emergency Phone Num:703-66

2-3842

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 Name:SILICA, CRYSTALLINE - TRIPOLI

CAS:1317-95-9

RTECS #:VV733600

0
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)

===== 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 Overexposure:CASHEW RESINS-SKIN ERUPTIONS SIMILAR TO POISON IVY. PNEU

MOCONIOSIS-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.

===== First Aid Measure
S =====

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.

===== 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

===== 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.

===== 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.

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

Respiratory Protection:NIOSH-APPROVED FOR PNEUMOCONIOSIS-FIBROSIS PRODUCING DUSTS AND DUSTS WITH TLV 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. U

SE 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

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

Sta

bility 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.

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.