

ABEX CORP FRICTION PRODUCTS GROUP -- PN:DLM-10-99 FRICTION MATERIAL --  
2530-01-172-2778

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

Product ID:PN:DLM-10-99 FRICTION MATERIAL

MSDS Date:01/04/1995

FSC:2530

NIIN:01-172-2778

MSDS Number: CFKGV

=== Responsible Party ===

Company Name:ABEX CORP FRICTION PRODUCTS GROUP

Address:2410 PAPER MILL RD

Box:3250

City:WINCHESTER

State:VA

ZIP:22604

Country:US

Info 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

Company Name:EXXON CO USA

Address:800 BELL ST

Box:2180

City:HOUSTON

State:TX

ZIP:77252-2180

Country:US

Phone:713-656-6449

CAGE:29667

Company Name:MERITOR HEAVY VEHICLE SYSTEMS LLC

Address:2135 W MAPLE RD

B

ox:City:TROY  
State:MI  
ZIP:48084  
Country:US  
Phone:248-435-8207  
CAGE:78500

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Composition/Information on Ingredients  
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Ingred Name:GLASS FIBERS  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICATES, SILICA, TRIPOLI, TALC (NON FIBEROUS FORM)  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:CARBON PRODUCTS, CARBON BLACK, GRAPHITE, OTHERS  
Other REC Limits:NONE RECOMMENDED

Ingred Name:PHENOLIC, CASHEW ,ELASTOMERIC COMPOUNDS  
Other REC Limits:NONE RECOMMENDED

Ingred Name:FILLERS, WOOD FLOUR & OTHER FILLERS  
Other REC Limits:NONE RECOMMENDED

Ingred Name:METALS AND THEIR OXIDES-IRON, ZINC, ALUMINUM, BRASS,  
MAGNESIUM  
Other REC Limits:NONE RECOMMENDED

Ingred Name:FIBERS, ORGANIC & INORGANIC (NON-ASBESTOS)  
Other REC Limits:NONE RECOMMENDED

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Hazards Identification  
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Ca

rcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:SOME PERSONS MAY BE SENSITIVE TO  
CASHEW RESINS & DEVELOP DERMATITIS-TYPE PROBLEMS.DUST OF GLASS  
FIBER,SILICA,TALC,GRAPHITE,CARBON BLACK & COAL CAN PRODUCE  
PENUMOCONIOSIS,SILICOSIS,A PROGRESSIVE DEGENERATIVE SCARRING OF  
LUNG TISSUE & OTHER LUNG DMG.METAL DUSTS CAN BE IRRIT TO EYE/UPPER  
RESP SYS.THERE'S LITTLE (SUPPLE)

Explanation of Carcinogenicity:PER MSDS:IARC:VOL42,1987 SUFFIC EVIDENCE  
FOR CARCI

OF CRYSTALLIN SILICA TO EXPERIMENTAL ANIMALS,LIMIT EVIDENCE W/HUMANS.

Effects of Overexposure:CASHEW RESINS-SKIN ERUPTIONS SIMILAR IN APPEARANCE TO POISON IVY.PNEUMOCONIOSIS & SILICOSIS-COUGHING,WHEEZING,SHORTNESS OF BREATH,SPUTUM PRODUCTION,IMPAIRED PULM FUNCTION.DUSTS IN EYE MAY CAUSE IRRIT. GASTROINTESTINAL DISTURB POSSIBLE FRM INGEST.GLASS FIBER MAY CREATE TRANSIENT MECHANICAL IRRIT OF SKIN OF SOME PERSONS.

Medical Cond Aggravated by Exposure:EXISTING RESPIRATORY PROBLEMS MAY BE AGGRAVATED BY EXPOSURE TO ANY DUST.

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

First Aid:EYE:FLUSH W/LARGE AMTS OF WTER FOR 15MINS W/EYELIDS OPEN.GET MED ATTN.SKIN:WASH THOROUGHLY W/SOAP/WATER.IF IRRIT PERSIST GET MED ATTN.INHAL:REMOVE FROM EXPO TO FRESH AIR.RESTORE BREATHING.GET MED ATTN .INGEST:GIVE LARGE QUANT OF WATER & INDUCE VOMIT.GET MED ATTN.DONT MAKE UNCONSC PERSON VOMIT.

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

Flash Point:NA  
Autoignition Temp:Autoignition Temp Text:NP  
Lower Limits:NA  
Upper Limits:NA  
Extinguishing Media:WATER, (CLASS A,B, OR C).  
Fire Fighting Procedures:POSITIVE PRESSURE SCBA SHOULD BE USED,PERSONNEL NOT HAVING SUITABLE RESP PROTECTION SHOULD LEAVE AREA TO PREVENT SIGNIF EXPO TO TOXIC COMBUST GASES FRM ANY SOUR  
Unusual Fire/Explosion Hazard:POWDER WILL SMOLDER & BURN.

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

Spill Release Procedures:  
GRINDING,DRILLING,MILLING,ETC CAN RESULT IN RELEASE OF AIRBORNE DUST.WET SWEEP OR VACUUM.AVOID GENERATING AIRBORNE DUST & AVOID BREATHING DUST.MEASURES AS OUTLINED IN MSDS SHOULD BE FOLLOWED IF THIS OCCURS.

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

Handling and Storage Precautions:PRE-EMPLOYMENT SCREENING FOR ALLERGIES & HISTORIES OF SKIN SENSITIVITIES MAY BE BENEFICIAL IN DETERMINING PERSONS SENSITIVE TO CASHEW MATERIALS.  
Other Precautions:EMPLOY

EES SHOULD BE PROPERLY INSTRUCTED IN THE USE OF CONTROL MEASURES AS INDICATED ABOVE WHEN THERE'S A NEED FOR IT. IF DUST FROM PRODUCT IS PRODUCED UNNECESSARY EXPO SHOULD BE AVOIDED BY USING VAC IN PLACE OF DRY BROOMING. USE WET (SUPPLE)

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

Respiratory Protection: NIOSH APPROVED FOR PNEUMOCONIOSIS-FIBROSIS PRODUCING DUSTS & DUSTS W/TLV NOT LESS THAN 0.05MG/M3.

Ventilation: LOC EXHAU: FOR DUST EXPOSURES ESCEEDING TLV

.MECHANICAL(GEN): NOT RECOMMENDED FOR DUST EXPOSURES. OTHER: BARRIER CREAMS(SUPP)

Protective Gloves: RECOMMENDED

Eye Protection: SHOULDNT BE NEEDED FOR NOR HNDLG(SUPPLE)

Other Protective Equipment: LONG SLEEVED SHIRTS, OTHER PROT CLOTH MAY BE BENEFICIAL TO PREVENT SKIN CONTACT OF PERSONS SENS TO CASHEW RESIN&FIBER GLS

Work Hygienic Practices: LAUNDRY CONTAM CLOTH BEF REUSE. PROPER/ADEQUATE PERSONAL HYGIENE SHOULD BE PRACTICED BY EXPOSED WORKERS.

Supplemental Safety and Health

HEALTH: EVIDEN

CE OF CHRONIC INDUSTRIAL POISONING FROM IRON, ALUMINUM, &

ZINC DUSTS. VENTIL: FOR PERSONS W/SKIN SENSITIVE TO CASHEW RESINS & FIBER GLASS. EYE PROT: EYE PROT IS GOOD PRAC WHERE DUST IS PROPELL ED BY GRINDING OR DRILLING ACTIVITIES. OTHER PRECAUT: METHOD OF CLEANING FOR OTHER SURFACES.

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

HCC: N1

Boiling Pt: B.P. Text: NA

Melt/Freeze Pt: M.P/F.P Text: NA

Decomp Temp: Decomp Text: NP

Vapor Pres: NP

Vapor Density: NA

Spec Gravity:

1.5-3.5

pH: NP

Viscosity: NP

Evaporation Rate & Reference: 0, BUTYL ACETATE=1

Solubility in Water: INSOLUBLE

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

Percent Volatiles by Volume: NP

Corrosion Rate: NP

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

Stability Indicator/Materials to Avoid: YES

Hazardous Decomposition Products: INCOMPLETE COMBUSTION WILL CREATE CARBON MONOXIDE & DIOXIDE.

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

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Waste Disposal Methods:HAZARDOUS INGREDIENTS:40CFR PART 262 & APPLICABLE  
STATE & LOCAL REGULATIONS.

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