

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 R

D
Box: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

Carcinogenicity: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 DEGENE RATIVE 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 CA

RCI 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 IRRI TOF 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 Procedur

es: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.

===== 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:EMP

LOYEES 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)

===== 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 ESCCEEDING

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

Protective Gloves:RECOMMENDED

Eye Protection:SHOULDN'T 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:EVI

DENCE OF CHRONIC INDUSTRIAL POISONING FROM IRON,ALUMINUM,&
ZINC DUSTS. VENTI: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.

===== 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 Gravi

ty: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

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

Stability Indicator/Materials to Avoid:YES

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

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

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

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