

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

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

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

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

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.

===== 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.

===== 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.

===== 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.

===== 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)

===== 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: EVIDENCE

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.

===== 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

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

Stability Indicator/Materials to Avoid: YES

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

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

=====

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