

FERODO LTD -- ZA1 FRICTION MATERIAL -- 3950-00-491-7225

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

Product ID:ZA1 FRICTION MATERIAL

MSDS Date:01/01/1987

FSC:3950

NIIN:00-491-7225

MSDS Number: BNQBD

=== Responsible Party ===

Company Name:FERODO LTD

Address:BURRFIELDS RD CHAPEL-EN-LE-FRITH

City:STOCKPORT CHES SK12 6JP

Country:UK

Info Phone Num:0286 672401

Emergency Phone Num:0298 812520

Preparer's Name:DGSC

-SSH

CAGE:U1538

=== Contractor Identification ===

Company Name:CHAMPION FRICTION CO

Address:845 MCKINLEY

Box:1459

City:EUGENE

State:OR

ZIP:97440

Country:US

Phone:503-687-8015

CAGE:1M860

Company Name:FERODO LTD

Address:BURRFIELDS RD CHAPEL-EN-LE-FRITH

Box:City:STOCKPORT CHES SK12 6JP

Country:UK

Phone:0286 672401

CAGE:U1538

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

Ingred Name:ASBESTOS, CHRYSOTILE

CAS:12001-29-5

RTECS #:CI6478500

Other REC Limits:NONE SPECIFIED

OSHA PE

L:0.2 FIBERS/CC

ACGIH TLV:2 FIBERS/CC; A1;9192

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE: NO ACUTE EFFECTS ARE KNOWN;  
CHRONIC: DUST CONTAIN ASBESTOS FIBERS. CHRONIC OVEREXPOSURE TO  
AIRBORNE FIBERS MAY LEAD TO ASBESTOSIS AND MESOTHELIOMA. SMOKING  
COMBINED WITH FIBER INHALATION GREATLY INCREASES LUNG CANCER  
RISK!

Explanation of Carcinogenicity:OVEREXPOSURE TO AIRBORNE CONCENTRATIONS  
OF ASBESTOS MAY LEAD TO ASBESTOSIS AND MESOTHELIOMA.

Effects of Overexposure:INHALATION: INHALATION OF AIRBORNE DUST  
CONTAINING ASBESTOS FIBERS ON REPEATED EXPOSURE MAY CAUSE OR CAN  
LEAD TO ASBESTOSIS / MESOTHELIOMA. SKIN: UNKNOWN. EYES: POTENTIAL  
IRRITATION FROM AIRBORNE DUST . INGESTION: UNKNOWN.

Medical Cond Aggravated by Exposure:RESPIRATORY DEFICIENCIES DUE TO  
REPEATED INHALATION OF AIRBORNE FIBERS.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ADVICE. SKIN:  
WASH EXPOSED AREA WITH SOAP AND WATER. EYES: FLOOD WITH WATER. IF  
IRRITATION OCCURS, GET MEDICAL ATTENTION. INGESTION: CONSULT A  
PHYSICIAN . OTHER: CHANGE CLOTHING AS REQUIRED TO AVOID CARRYING  
DUST PARTICLES INTO OTHER AREAS.

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

Flash Point:NONE

Extinguishing Media:M

MATERIAL IS NOT FLAMMABLE ; USE MEDIA APPROPRIATE  
FOR SURROUNDING FIRE.

Fire Fighting Procedures:COMBUSTION PRODUCTS OF THIS MATERIAL MAY BE  
TOXIC. USE A SELF-CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES  
INVOLVING CHEMICAL PRODUCTS.

Unusual Fire/Explosion Hazard:NONE KNOWN

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

Spill Release Procedures:USE PROPER PERSONAL PROTECTION. VACUUM OR WET  
CLEAN IF DUST IS INVOLVED. ANY VACUUM SYSTEM SHOULD BE EQUIPPED

WITH AN OUTLET "HEPA" FILTER TO PREVENT REINTRODUCING ASBESTOS FIBERS TO THE ATMOSPHERE.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:HANDLE IN A MANNER TO MINIMIZE FORMATION OR RETENTION OF AIRBORNE DUST. USE PROPER PERSONAL PROTECTION FOR TASK AT HAND. CHECK W/YOUR SAFETY OFFICE!!!

Other Precautions:AS MANUFACTURED, LOCKED-IN ASBESTOS DOES NOT PRESENT A HAZARD. ONLY WHEN THE ITEM IS SUBJECTED TO FRICTION ACTION AND DUST IS GENERATED, THEN ASBESTOS FIBERS MAY BE RELEASED AND BECOME AIRBORNE.

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

Respiratory Protection:IF EXPOSURES EXCEED ESTABLISHED LIMITS, A NIOSH/MSHA APPROVED RESPIRATOR FOR ASBESTOS SHOULD BE USED. CONSULT YOUR SAFETY OFFICE/INDUSTRIAL HYGIENIST PERSONNEL FOR GUIDANCE FOR THE TASK AT HAND.

Ventilation:LOCAL EXHAUST IS RECOMMENDED IN SITUATIONS WHERE DUST IS GENERATE

D BY ABRASIVE ACTIONS, ABRASION OR OTHER MEANS.

Protective Gloves:AS REQUIRED FOR TASK AT HAND.

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS OR GOGGLES

Other Protective Equipment:AS REQUIRED FOR TASK AT HAND, AND THE GUIDANCE SET FORTH BY YOUR SAFETY OFFICE OR INDUSTRIAL HYGIENIST PERSONNEL.

Work Hygienic Practices:DO NOT INHALE DUST CREATED BY FRICTION ACTIONS. USE FULL PROTECTION AGAINST AIRBORNE FIBERS.AVOID AIRBORNE DUST CREATION

Supplemental Safety and Health

GENERIC "MSDS"

CREATED FOR "NSN" IDENTIFIED BY "DCSC" AS CONTAINING

ASBESTOS. WHEN A MANUFACTURER'S SPECIFIC "MSDS" IS PROVIDED FOR MATERIAL PROCURED UNDER THIS NSN, THIS GENERIC "MSDS" WILL BE REMOVE D. MANUFACTURER SUPPLIED A MATERIAL DATA SHEET, NOT A MATERIAL "SAFETY" DATA SHEET.

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

HCC:T6

Spec Gravity:1.55

Evaporation Rate & Reference:NONE

Solubility in Water:NOT SOLUBLE

Appearance and Odor:FRICTION LINING.

Percent Vol

atiles by Volume:NONE

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

Stability Indicator/Materials to Avoid:YES

NONE KNOWN

Stability Condition to Avoid:NONE KNOWN

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

Waste Disposal Methods:DUST SHOULD BE HANDLED AS A HAZARDOUS AIR  
POLLUTANT I/A/W 40CFR61 SUBPART "M" PERTAINING TO ASBESTOS. USE  
LANDFILLS APPROVED FOR ASBESTOS DISPOSAL.

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.