

CATERPILLAR INC -- FRICTION MATERIAL CONTAINING ASBESTOS -- 2520-01-011-4381

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

Product ID:FRICTION MATERIAL CONTAINING ASBESTOS

MSDS Date:09/23/1986

FSC:2520

NIIN:01-011-4381

MSDS Number: BNWQX

=== Responsible Party ===

Company Name:CATERPILLAR INC

Address:100 NE ADAMS ST

City:PEORIA

State:IL

ZIP:61629

Country:US

Info Phone Num:309-675-5917/309-675-6922

Emergency P

hone Num:309-675-5917

Preparer's Name:F. M. BOCK

CAGE:11083

=== Contractor Identification ===

Company Name:CATERPILLAR INC

Address:100 NE ADAMS ST

Box:City:PEORIA

State:IL

ZIP:61629

Country:US

Phone:309-675-5917

CAGE:11083

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

Ingred Name:ASBESTOS, CHRYSOTILE

CAS:12001-29-5

RTECS #:CI6478500

Fraction by Wt: 10-40%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.2 FIBERS/CC

ACGIH TLV:2 FIBERS/CC; A1;9192

Ingred Name:PHENOLIC RESIN

Fra

ction by Wt: 15-48%  
Other REC Limits:NONE SPECIFIED

Ingred Name:METAL BASE  
Fraction by Wt: 60-78%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:15 MG/M3 TOTAL DUST  
ACGIH TLV:10 MG/M3 TOTAL DUST

Ingred Name:CARBON  
RTECS #:FF5251000  
Fraction by Wt: 5-30%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:15 MG/M3  
ACGIH TLV:10 MG/M3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:  
YES

Health Hazards Acute and Chronic:ACUTE-NONE UNDER NORMAL CONDITIONS OF  
USE.GRINDING,SANDING OR MACHINING MAY PRODUCE DUST THAT CAN CAUSE  
IRRITATION OF EYES, SKIN AND RESPIRATORY PASSAGES. CHRONIC- LONG  
TERM EXPOSURE TO ASBESTOS CAN C AUSE IRREVERSIBLE ASBESTOSIS, LUNG  
DISEASE, LUNG CANCER. RESIN MAY CAUSE DERMATITIS.

Explanation of Carcinogenicity:ASBESTOS IS REGULATED BY OSHA AS A  
CARCINOGEN.

Effects of Overexposure:NONE UNDER NORMAL CONDITIONS OF USE. HOWEVER,  
GRIND

ING, SANDING OR MACHINING MAY PRODUCE NUISANCE PARTICULATES  
THAT CAN CAUSE IRRITATION OF EYES, SKIN AND RESPIRATORY PASSAGES.  
LONG TERM EXPOSURE TO A SBESTOS CAN CAUSE IRREVERSIBLE ASBESTOSIS,  
LUNG DISEASE, LUNG CANCER.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN  
DISORDERS SUCH AS DERMATITIS, LUNG DISEASE OR ANY CONDITION THAT  
MAY BE AGGRAVATED BY NUISANCE DUST OR FIBERS.

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

First Aid:S

HOULD NOT BE NECESSARY FROM A PROPER HANDLING. HOWEVER, SEEK MEDICAL ATTENTION IF SYMPTOMS DEVELOP. IN CASE OF EYE IRRITATION GENTLY RINSE WITH WATER FOR 15 MINUTES WHILE KEEPING EYELIDS OPEN. SKIN: WASH FREQUENTLY WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: UNLIKELY.

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

Flash Point:NON FLAMMABLE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE.

USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:TOXIC DECOMPOSITION FUMES OR ASBESTOS FIBERS MAY BE EVOLVED IN A FIRE.

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

Spill Release Procedures:TREAT DUST AS FREE ASBESTOS. DO NOT DRY SWEEP OR USE COMPRESSED AIR. WET METHOD SHOULD BE USED FOR EXTRACTION OF DUST AND DEB

RIS. HIGH EFFICIENCY PARTICULATE APPARATUS (HEPA) VACUUMS SHOULD BE USED.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORAGE- AVOID CREATING DUST BY SANDING OR GRINDING THE PRODUCT.

Other Precautions:USE IN WELL VENTILATED AREA. AVOID BREATHING DUST OR FIBERS. MINIMIZE CONTACT WITH SKIN. AVOID CONTACT WITH EYES. DO NOT RAISE DUST. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR

DRINKING. KEEP AWAY FROM REACH OF CHILDREN.

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

Respiratory Protection:USE NIOSH APPROVED HIGH EFFICIENCY FIBERS/FUMES RESPIRATOR WHEN AIRBORNE FIBER CONCENTRATIONS EXCEED THE PEL.

Ventilation:LOCAL/GENERAL TO MAINTAIN PEL/TLV. CHECK LOCAL REGULATIONS FOR EMISSION STANDARDS.

Protective Gloves:LEATHER, COTTON OR RUBBER AS NEEDED

Eye Protection:DUST-RESISTANT SAFETY GOGGLES

Other Protective Equipment:EYE WASH STATION AND SA

FETY SHOWER, WORK

CLOTHING AND APRON AS REQUIRED. DO NOT WEAR CONTACT LENSES

Work Hygienic Practices:DON'T TAKE PROTECTIVE GEAR/CLOTHING HOME IF EXPOSED TO DUST. DON'T SHAKE. DON'T EAT IN AREA WHERE ASBESTOS/DUST PRESENT.

Supplemental Safety and Health

THE MANUFACTURER STATES THAT THE FRICTION MATERIAL PRODUCT, AS SHIPPED, IS NOT CONSIDERED HAZARDOUS, AND IS NOT REQUIRED TO HAVE LABEL OR MSDS. BUT MACHINING, GRINDING, DRILLING AND/OR NORMAL USE MAY CREATE ASBESTOS DUST O

R AIRBORNE ASBESTOS FIBERS IN EXCESS OF OSHA STANDARD AND SHOULD BE CONSIDERED HAZARDOUS.

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

HCC:T6

Appearance and Odor:SOLID MATERIAL

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

Stability Indicator/Materials to Avoid:YES

NONE KNOWN

Stability Condition to Avoid:NONE KNOWN

Hazardous Decomposition Products:NONE KNOWN

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

Waste Disposal

Methods:WASTE SHOULD BE CONTAINED IN IMPERMEABLE BAGS, LABELED AND DISPOSED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

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