

CARBORUNDUM CO-FIBERS DIV -- FIBERFRAX DURABLANKET -- 5640-01-302-3904

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

Product ID:FIBERFRAX DURABLANKET
MSDS Date:09/23/1988
FSC:5640
NIIN:01-302-3904
MSDS Number: BMWMB
=== Responsible Party ===
Company Name:CARBORUNDUM CO-FIBERS DIV
Box:808
City:NIAGARA FALLS
State:NY
ZIP:14302
Country:US
Info Phone Num:716-278-2000
Emergency Phone Num:800-321-8642;800-424-9300(CHEMTREC)
Preparer's Name:RIGNEY
CAGE:5L608
=== Contractor Identification ===
Company Name:CARBORUNDUM CO-FIBERS DIV
Box:City:NIAGARA FALLS
State:NY
ZIP:14302
Country:US
Phone:716-278-2000
CAGE:5L608

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

Ingred Name:ALUMINUM (III) SILICATE (2:1); (ALUMINOSILICATE)
CAS:1302-76-7
RTECS #:BD1450000
Fraction by Wt: 99-100%

Ingred Name:SUPP DATA:INJECTION TECH IS NON-PHYSIOLOGICAL METH OF EXPOS, BYPASSING BOTH NORM PULM PROT &

CLEARANCE (ING 3)
RTECS #:9999999ZZ

Ingred Name:ING 2:MECHANISMS. RECENTLY PUBLISHED INHAL STUDIES HAVE PROVIDED CONTRADICTIONARY RSLTS. ONE STUDY, WHICH USED RATS (ING 3)
RTECS #:9999999ZZ

Ingred Name:ING 3: AS EXPERIMENTAL ANIMAL, RPTD LUNG DAM CONSISTING OF ALVEOLAR PROTEINOSIS & INTERSTITIAL FIBROSIS, (ING 5)
RTECS #:9999999ZZ

Ingred Name:ING 4:WHEREAS, OTHER STUDIES USING RATS & HAMSTERS, SHOWED NO SIMILAR EFTS. PULM TUMOR-CAUSING POTNTL OF (ING 6)
RTECS #:9999999ZZ

Ingred Name
:ING 5:REFRACTORY CERAMIC FIBERS IN ANIMALS IS UNCLEAR. TWO INHAL STUDIES SUGGEST LOW-ORDER POTNTL IN INDUCING (ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6:PULM TUMORS IN ANIMALS, WHILE OTHER INHAL & INTRATRACHEAL INJECTION STUDIES CONCLUDE THAT CERAMIC FIBERS (ING 8)
RTECS #:9999999ZZ

Ingred Name:ING 7:ARE NOT TUMORIGENIC IN ANIMALS. FURTHER ANIMAL & HUMAN HLTH STUDIES ARE PLANNED. PENDING RSLTS OF THESE (ING 9)
RTECS #:9999999ZZ

Ingred Name:ING 8: STUDIES, STRICT ADHERENCE TO RECOM SAFE WORK PRACTICES DESCRIBED IN ORIGINAL DATA SHEET IS ADVISED.(ING 10)
RTECS #:9999999ZZ

Ingred Name:ING 9:INTL AGENCY OF RESEARCH ON CANCER (IARC) HAS RECENTLY REVIEWED ANIMAL, HUMAN & OTHER RELEVANT EXPERIMENTAL(ING 11)
RTECS #:9999999ZZ

Ingred Name:ING 10:DATA ON MAN MADE MINERAL FIBERS IN ORDER TO CRITICALLY EVALUATE & CLASSIFY CANCER CAUSING POTNTL OF MATL.(ING 12)
RTECS #:9999999ZZ

Ingred Name:ING 11:BASED ON REVIEW, IARC CLASSIFIED FIBROUS GLASS WOOL, MINE

RAL WOOL (BOTH ROCK WOOL & SLAG WOOL) & CERAMIC (ING 13)
RTECS #:9999999ZZ

Ingred Name:ING 12:FIBER AS GROUP 2B CARCIN. BY DEFIN, GROUP 2B AGENT
IS POSS CARCINOGENIC TO HUMANS. FOR REFRACTORY (ING 14)
RTECS #:9999999ZZ

Ingred Name:ING 13:CERAMIC FIBERS, IARC'S 2B CLASSIFICATION WAS BASED
ON SUFFICIENT EVIDENCE OF CARCIN EXPERIMENTAL ANIMALS (ING 15)
RTECS #:9999999ZZ

Ingred Name:ING 14:IN ABSENCE OF HUMAN EPIDEMIOLOGIC DATA.
RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC: REMOVE AFFECTED PERSON FROM SOURCE OF
EXPOSURE. GET MEDICAL ATTENTION.
RTECS #:9999999ZZ

Ingred Name:SPILL PROC: OF SPILLED MATERIAL.
RTECS #:9999999ZZ

Ingred Name:WASTE DISP METH: DESIGNATED AS HAZ ACCRDG TO ST REGS.
SUBSTANCE COULD ALSO BECOME HAZ WASTE IF MIXED W/COMES (ING 19)
RTECS #:9999999ZZ

Ingred Name:ING 18:CONT W/HAZ WASTE. IF SUCH CONT/MIXING MAY HAVE
OCCURED, CHECK 40 CFR 261 TO DETERM WHETHER IT IS HAZ (ING 20)
RTECS #:9999999ZZ

Ingred Name:ING 19:WASTE, REGS @ 40 CFR 262, 263
& 264 APPLY.
TRANSPORTATION/STOR/TRTMT/DISP OF WASTE MATL MUST BE CONDUCTED(ING
21)
RTECS #:9999999ZZ

Ingred Name:ING 20:IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE,
AND LOCAL REGULATIONS.
RTECS #:9999999ZZ

Ingred Name:HNDLG/STOR PREC:RESP DISEASE--"PNEUMOCONIOSIS". AMT OF
CRISTOBALITE PRESENT WILL DPND ON TEMP & LGTH IN SERVICE.
RTECS #:9999999ZZ

Ingred Name:OTHER PREC:MATL TO MINIMIZE GENERATION OF AIRBORNE DUST.
RTECS #:9999999ZZ

Ingred Name:HYGIENE PRACT:CLTHS HOME/P

ROVIDE DISP WORK CLTHG. WASH WORK
CLOTHES SEPARATELY FROM OTHER CLTHG. RINSE WASHING (ING 25)
RTECS #:9999999ZZ

Ingred Name:ING 24: MACHINE THORO AFTER USE. IF CLTHG IS TO BE
LAUNDERED BY SOMEONE ELSE, INFORM LAUNDERER OF PROPER PROCEDURES.
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

H

Health Hazards Acute and Chronic:MAY BE HARMFUL IF INHALED. MAY BE
IRRITATING TO SKIN/EYES/RESP TRACT. POSS CANCER HAZ BASED ON TESTS
W/LAB ANIMALS. INGEST:MAY CAUSE GI DISTURB. SYMP MAY INCL
IRRIT/NAUS/VOMIT/DIARRH. SKIN: SLIGHTLY TO MOD IRRITATING. MAY
CAUSE IRRIT & INFLAMM DUE TO MECH RXN TO SHARP, BROKEN ENDS OF
FIBERS. EYE: (EFTS OF OVEREXP)

Explanation of Carcinogenicity:FIBROUS GLASS WOOL, MINERAL WOOL &
CERMAIC FIBER: GROUP 2B (IARC).

Effects of Overexposure:HLTH

HAZ: SLIGHTLY TO MOD IRRITATING. ABRASIVE

ACTION MAY CAUSE DAM TO OUTER SURF OF EYE. INHAL:MAY CAUSE RESP
TRACT IRRIT. CURRENTLY, THERE ARE NO KNOWN CHRONIC HLTH EFTS IN
HUMANS FROM LONG-TERM EXP OS TO CERAMIC FIBERS. IN ANIMAL STUDIES,
REFRACTORY CERAMIC FIBERS INJECTED INTO PERITONEAL (ABDOM) CAVITY
(SUPP DATA)

Medical Cond Aggravated by Exposure:PRE-EXISTING MED CNDTNS MAY BE
AGGRAVATED BY EXPOSURE; SPECIFICALLY, BRONCHIAL HYPER-REACTIVITY
AND CHRONIC BRONCHIAL OR
LUNG DISEASE.

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

First Aid:INGEST:DO NOT INDUCE VOMIT. GET MED ATTN IF IRRIT PERSISTS.
SKIN:WASH AREA OF CONT THORO W/SOAP/H*20. DO NOT RUB/SCRATCH
EXPOSED SKIN. USING SKIN CREAM/LOTION AFTER WASHING MAY BE HELPFUL.
GET MED ATT N IF IRRIT PERSISTS. EYE:FLUSH IMMED W/LG AMT OF H*20
FOR @ LST 15 MIN. LIDS SHOULD BE HELD AWAY FROM EYEBALL TO ENSURE
THRU RINSING. DO NOT RUB EYES. GET MED ATTN IF IRRIT PERSISTS.

INHAL: (ING 16)

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

Flash Point:NONE

Extinguishing Media:USE EXTINGUISHING AGENT SUITABLE FOR TYPE OF SURROUNDING FIRE.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .

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

Spill Release Procedures:WHERE POSS, USE VACUUM SUCTION TO CLEAN UP SPILLED MATL. USE DUST SUPPRESSANT WHERE SWEEPING IS NEC. AVOID CLEAN

UP PROC THAT MAY RSLT IN H*2O POLLUTION. PERS SFTY & EXPOS RECOM DESCRIBED ELSEWHERE IN DATA SHEET APPLY TO EXPOS DURING CLEANUP(ING 17)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:PROD WHICH HAS BEEN IN SERVICE @ ELEVATED TEMP (>1800F)MAY UNDERGO PARTIAL CONVERSION TO CRISTOBALITE,FORM OF CRYSTALLINE WHICH CAN CAUSE SEV (ING 22)

Other Precautions:PARTICULATE CARE SHOULD BE TAKEN WHEN WORKING

W/"USED" MATL TO MINIMIZE GENERATION OF DUST. WHEN REMOVING & HNDLG CERAMIC FIBER USED IN HIGH TEMP APPLICATN, SPECIAL CAUTION SHOULD BE TAKEN TO AVOID UN NEC CUTTING & TEARING OF USED (ING 23)

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

Respiratory Protection:USE NIOSH/MSHA APPROVED EQUIPMENT WHEN AIRBORNE EXPOSURE LIMITS ARE EXCEEDED. NIOSH/MSHA APPROVED BREATHING EQUIPMENT MAY BE REQUIRED FOR NON-ROUTINE AND EMERGENCY USE.

REFER TO ORIGINAL MSDS FOR FURT HER INFORMATION .

Ventilation:VENT MAY BE USED TO CTRL OR REDUCE AIRBORNE CONCENTRATIONS

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:EYE WASHING FACILITIES READILY AVAIL WHERE EYE CONT CAN OCCUR. HATS OR FULL BODY CLTHG TO PVNT SKIN CONT AS NEC.

Work Hygienic Practices:USE SEPARATE LOCKERS FOR WORK CLOTHES TO PVNT FIBER TRANSFER TO STREET CLOTHES. AVOID TAKING UNWASHED WORK (ING 24)

Supplemental Safety and Health

EFFECTS OF OVEREXPOSURE: HAVE CAUSED ACUTE ABDOMINAL HEMORRHAGE IN HAMSTERS BUT NOT IN RATS. SUCH INJECTIONS INTO ABDOMINAL/PLEURAL CAVITIES HAVE ALSO PRODUCED TUMORS IN LIFE-TIME RAT & HAMSTER STUDIES. IN FACT, SIMILAR RESULTS HAVE BEEN OBSERVED WITH NUMEROUS OTHER FIBROUS & NON-FIBROUS MATERIALS. IN SUCH EXPERIMENT, ABNORMALLY SENSITIVE (ING 2)

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

Stability Indicator/Materials to Avoid: YES

INCOMPATIBLE WITH

HYDROFLUORIC ACID AND CONCENTRATED ALKALI.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods: SUBSTANCE, WHEN DISCARDED/DISPOSED OF, IS NOT SPECIFICALLY LISTED AS HAZARDOUS WASTE IN FEDERAL REGULATIONS; HOWEVER IT COULD BE HAZARDOUS IF IT IS CONSIDERED TOXIC, CORROSIVE, IGNITABLE, OR REACTIVE ACCORDING TO FEDERAL DEFINITIONS (40 CFR 261). ADDITIONALLY, IT COULD BE (ING 18)

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.