

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 & C

LEARANCE (ING 3)
RTECS #:9999999ZZ

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

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

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

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

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

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

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

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

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

Inged Name:ING 11:BASED ON REVIEW, IARC CLASSIFIED FIBROUS GLASS WOOL,
MINER

AL 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 AFFECT
ED 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/PR

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

Ingrd 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
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 &
CERAMIC FIBER: GROUP 2B (IARC).
Effects of Overexposure:HLTH H
AZ: 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*2O. 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*2O
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 REGS; 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)

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