

CODING FORMS FOR SRC INDEXING

Microfiche No.		OTS0001062	
New Doc ID	FYI-OTS-1294-1062	Old Doc ID	84950000008
Date Produced	12/02/93	Date Received	01/03/95
		TSCA Section	FYI
Submitting Organization		OWENS-CORNING FIBERGLAS CORP	
Contractor			
Document Title		INITIAL SUBMISSION: TRNSCPT, EXTER SCIENTIFIC PEER REVIEW O f EXPOSURE TO ASPHALT PRODUCTS W/CVR LTR DATED 12/15/94	
Chemical Category		ASPHALT FUMES; ASPHALT FUME CONDENSATES;	

FYI-1294-1062

FIBERGLAS TOWER
TOLEDO, OHIO 43659
419.248.7329 FAX 419.248.8519

JOEL R. BENDER, Ph.D., M.D.
VICE PRESIDENT
HEALTH, SAFETY & ENVIRONMENTAL AFFAIRS

December 15, 1994

Document Processing Center (TS-790)
Office of Toxic Substances
Environmental Protection Agency
401 M Street, S.W.
Washington, DC 20460

Attention: 8(e) Coordinator

Gentlemen:

Subject: TSCA 8E (FYI) SUBMISSION

Owens-Corning Fiberglas Corporation (OC) is providing, to the TSCA Docket, a draft copy of NIOSH's Current Intelligence Bulletin (CIB), titled Potential of Occupational Exposure to Asphalt Products and a transcript of the scientific peer review of the draft CIB conducted by NIOSH on December 1 and 2, 1993. OC manufactures roofing asphalt products. It does not believe that these documents contain any new information that reasonably supports the conclusion that roofing asphalt presents a substantial risk of injury to health. They are provided for EPA's information in case NIOSH has not already provided it with a copy.

The peer review panel consisted of NIOSH selected reviewers from government, industry, labor, and academia. Additionally, members of the audience were allowed to comment. Representatives of the industry reported on ongoing research it is sponsoring regarding the health effects of roofing asphalt. All comments are included in the transcript.

In the CIB draft, NIOSH states that roofing asphalt fumes are potentially carcinogenic to occupationally exposed workers. This statement is based on (1) results from dermal studies in animals exposed to a "laboratory" generated asphalt fume condensate and (2) an epidemiologic study that reports excess mortality among roofers exposed to asphalt fume. The results of those studies have previously been reported in the peer reviewed scientific literature.

RECEIVED

94 DEC 27 PM 2:30



INIT ~~1/3/95~~ 1/3/95



849500000008

Contains No CBI

JAN - 4 1995

December 15, 1994

THE ANIMAL STUDIES

Studies were conducted with "laboratory" generated asphalt fumes that were condensed and applied to the skin of animals and produced some tumors. Data was presented that these laboratory generated fumes were shown to be chemically, physically, and biologically very different from actual "field" generated fumes. All peer reviewers agreed that "field" fumes which workers are actually exposed to needed to be evaluated.

The "laboratory" generated asphalt fume was separated into five fractions (A-D). Data was presented which demonstrated that only fractions B & C were found to produce carcinogenic responses. Fractions A, D, and E were found not be carcinogenic and, more importantly, the "field" fume composition was very similar to fraction A. This raises a significant question as to whether asphalt fumes, which workers are exposed to, are hazardous.

STUDIES OF WORKERS

Only one epidemiologic study cited by NIOSH reported excess mortality among asphalt roofers. Data was presented at the peer review which demonstrated that these roofers were also exposed to coal tar pitch (a known carcinogen), thereby confounding this study.

A recent epidemiologic review of roofing and road asphalt workers by the International Agency for Research on Cancer (IARC) concluded that the published studies are either negative or have methodological limitations which preclude a cancer hazard evaluation.

In conclusion, OC believes that the data to date is inconclusive and ongoing joint research studies by NIOSH and the industry need to be completed to further address this issue. The CIB, in its current form, also contains technical inconsistencies. Although NIOSH has indicated that the draft CIB is being replaced by a criteria document, the technical questions remain.

Very truly yours,



Joel R. Bender, Ph. D., M.D.

KDR:bam

CC Messrs. K. D. Gould
D. L. Brown

JAN - 4 1995

The following is a transcript of the

INFORMAL PUBLIC MEETING:

**EXTERNAL SCIENTIFIC PEER REVIEW OF
DRAFT CURRENT INTELLIGENCE BULLETIN ON THE
CARCINOGENIC POTENTIAL OF OCCUPATIONAL EXPOSURE
TO ASPHALT PRODUCTS**

December 1-2, 1993

Auditorium, Robert A. Taft Laboratories
National Institute for Occupational Safety and Health
Centers for Disease Control and Prevention
Cincinnati, Ohio 45226

Contains No 221

RECEIVED

APR 12 1994 :

OWENS - CORNING
FIBERGLAS CORP.
REGULATORY AFFAIRS

PEER REVIEW PANEL

CHAIR:

**WHITTENBERGER, JAMES L., M.D.
PROFESSOR EMERITUS
HARVARD UNIVERSITY
1312 DOVER DRIVE
NEWPORT BEACH, CAL 92660**

**ARP, EARL W., PH.D., DIRECTOR
HEALTH AND SAFETY
ASHLAND OIL INC.
P.O. BOX 391
ASHLAND, KY 41114**

**BENDER, ALLEN P., PH.D.
SECTION CHIEF, CHRONIC DISEASE
AND ENVIRONMENTAL EPIDEMIOLOGY
MINNESOTA DEPARTMENT OF HEALTH
P.O. BOX 9441
MINNEAPOLIS, MN 55440-9441**

**BINGHAM, EULA, PH.D., PROFESSOR
ENVIRONMENTAL HEALTH
COLLEGE OF MEDICINE
UNIVERSITY OF CINCINNATI
KETTERING BUILDING MLO56
CINCINNATI, OH 45267**

**BLACKBURN, GARY R., PH.D., TOXICOLOGY
MOBIL ENVIRONMENTAL AND HEALTH
SCIENCE LAB
P.O. BOX 1029
PRINCETON, NJ 08543-1029**

**KAJOLA, WILLIAM H.
ASSOCIATE DIRECTOR
OCCUPATIONAL HEALTH
LABORER'S HEALTH & SAFETY FUND
OF NORTH AMERICA
905 16TH STREET, N.W.
WASHINGTON, DC 20006-1765**

**LOOMIS, DANA P., PH.D.
DEPARTMENT OF EPIDEMIOLOGY
UNIVERSITY OF NORTH CAROLINA
CHAPEL HILL, NC 27599-7400**

NIOSH PANEL

**ELLISON, CRYSTAL, PH.D.
DIVISION OF STANDARDS DEVELOPMENT
AND TECHNOLOGY TRANSFER NIOSH
ROBERT A. TAFT LABORATORIES
4676 COLUMBIA PARKWAY
CINCINNATI, OH 45226-1998**

**NIEMEIER, RICHARD W., PH.D., DIRECTOR
DIVISION OF STANDARDS
DEVELOPMENT & TECH. TRANSFER
NIOSH
ROBERT A. TAFT LABORATORIES
4676 COLUMBIA PARKWAY
CINCINNATI, OH 45226-1998**

**ZUMWALDE, RALPH D., MS.S
CHIEF OF THE DOCUMENT DEVELOPMENT
DIVISION OF STANDARDS DEVELOPMENT &
TECHNOLOGY TRANSFER
4676 COLUMBIA PARKWAY C19
CINCINNATI, OH 45226-1998**

PARTICIPANTS

**ACOTT, MIKE, PRESIDENT
NATIONAL ASPHALT PAVING ASSOCIATION
5100 FORBES BLVD.
LANHAM, MARYLAND 20706-14413**

**BAYSE, DAVID D., PH.D.
ASSISTANT DIRECTOR OF SCIENCE
NIOSH
1600 CLISTON ROAD D40
ATLANTA, GA 30333**

**BELINKY, BARRY R., CHEMIST
DIVISION OF PHYSICAL SCIENCE
& ENGINEERING
4676 COLUMBIA PARKWAY R3
CINCINNATI, OH 45226-1998**

**CARLSON, MARTIN
MANAGING DIRECTOR
NYNAS PETROLEUM -- SWEDEN**

**GORAN, ENGHOLM
BYGGHALSAN AB
BOX 706
S-1821-DANDERYD, SWEDEN**

**FAYERWEATHER, BILL, PH.D. MPH
CORPORATE EPIDEMIOLOGIST
OWENS-CORNING TOWER 11
TOLEDO, OHIO 43569**

**KRIECH, ANTHONY J.
DIRECTOR OF RESEARCH
HERITAGE RESEARCH GROUP
7901 W. MORRIS STREET
INDIANAPOLIS, IN 46231**

**LAPEROUSE, JUDE, ROOFING CONTRACTOR
EDWARD J. LAPEROUSE METAL WORKS, INC.
P.O. BOX 9017
HOUMA, LOUISIANA 70361**

**LUNSFORD, ALAN, PH.D.
RESEARCH CHEMIST
DIVISION OF STANDARDS
DEVELOPMENT & TECHNOLOGY
TRANSFER - NIOSH
ROBERT A. TAFT LABORATORIES
4676 COLUMBIA PARKWAY
CINCINNATI, OHIO 45226-1998**

**MALZAHN, D&L
COASTAL CORPORATION
ONE WOODWARD AVENUE
DETROIT, MI 20814**

**RENKE, GERALD, TECHNICAL MANAGER
MATHY CONSTRUCTION COMPANY
920 10TH AVENUE NORTH
ONALASKA, WI 54650**

**SIVAK, ANDREW, PH.D.
CONSULTANT
P.O. BOX 1038
CAMBRIDGE, MA 02142**

**ZEY, JOHN N.
DIVISION OF TRAINING & MANPOWER
4676 COLUMBIA PARKWAY C10 NIOSH
CINCINNATI, OH 45226-1998**

I prepared the following transcript which represents, to the best of my knowledge, the actual words spoken by the people cited on the three videotapes supplied by NIOSH of the "External Scientific Peer Review of Draft Current Intelligence Bulletin on the Carcinogenic Potential of Occupational Exposure to Asphalt Products" held at the Robert A. Taft Laboratories in Cincinnati on December 1-2, 1993

Elizabeth Snyder
Waterville, OH
419-878-4305

JAN 4 1995

1 DR. NIEMEIER: Meeting of the asphalt products
2 intelligence bulletin. I'm Dr. Richard Niemeier; I'm
3 Director of the standards development technology transfer
4 division. And that division is one of seven divisions in
5 NIOSH. We, as a division, are responsible for making
6 recommendations to the Department of Labor for occupational
7 safety and health regulations according to either the
8 Occupational Safety and Health Act or the Mine Safety and
9 Health Act. I am very pleased of the large turnout for this
10 meeting. I remind you again that this is a scientific peer
11 review. It is not an OSHA hearing. And we will be hearing
12 mostly from our peer reviewers on the panel. And there will
13 be opportunities at the end of each day for the public to
14 make comments. We are currently videotaping this meeting so
15 that we have an exact record of comments as well as a memo to
16 the record will be prepared that will summarize the comments
17 from the peer review panel as well as comments from any of
18 the general public who are interested in making those
19 comments at the end of these da -- of each day. Couple
20 housekeeping issues we are going to have breaks at strategic
21 times hopefully during the day. There is a cafeteria down
22 one floor, B-1. It's at the very southern end of the
23 building from the auditorium. Coffee is available, tea, et
24 cetera as well as there will be lunches served there as a --
25 a source type lunch, but I think adequate -- there are a few
26 other places around here that will allow lunches to take
27 place within the hour that we will have for lunch break, so
28 if you're interested the cafeteria is down one floor.

29 As far as this document is concerned, in 1977 NIOSH

1 published a criteria document on asphalt fumes. I was
2 involved with that review as a staff member at the time in
3 another division. And because of that review there were a
4 number of research needs that were expressed during that
5 criteria document review that I felt needed to be fulfilled.

6 And as a toxicologist I went ahead and designed a number of
7 experiments and those are the basis of most of the animal
8 experiments that have been cited attributable to NIOSH
9 efforts.

10 The experiments began back in about 1978 as far as the
11 design and peer reviews and are still continuing to this day
12 actually, in trying to characterize the asphalt fume
13 components that have been found to be carcinogenic in certain
14 fractions of the roofing asphalt fumes.

15 The purpose of the current intelligence bulletin -- the
16 reason that we did not write an updated criteria document at
17 this time was because we were lacking the methodology for
18 sampling and analysis principally because we did not know the
19 active components that was causing the carcinogenic end
20 points from the roofing asphalt fumes and therefore we
21 decided that it was time that we get this -- gather this
22 information and get it out to the regulatory agencies and the
23 public so that proper precautions could be made based upon
24 the policy statements -- the final policy statements that
25 we'll be making.

26 This is obviously not the end of the story. There's
27 still a lot of research going on, a lot of field studies and
28 analytical chemistry studies and I think just recently there
29 was a paper published, oh, about a month ago concerning these

1 various aspects of asphalt fume carcinogenicity.

2 As I stated before there's a sort of intermediate step
3 before we would make a final decision, final policy decision
4 based upon the comments that we hear today and any other
5 information that we receive as a result of the submission to
6 the docket, which is December 17th. That is not an absolutely
7 firm deadline, but it is a target so that we can begin to
8 assemble the information. We have made exceptions in the
9 past and given people a little bit more lead time for
10 submission of their comments, but we would like to have them
11 as close to the 17th of December as possible.

12 I have asked Dr. Wittenberger, who was past chairperson
13 of our Board of Scientific Counselors and is now an
14 illustrious member of the NIOSH staff and he has agreed to
15 chair this peer review and that is principally because I have
16 been involved so much with the scientific studies that I
17 wanted to avoid a -- even an appearance of a potential
18 conflict of interest. So therefore I've asked Dr.
19 Wittenberger to chair the peer review and he will be running
20 this peer review from here out.

21 I also wanted to make sure that I introduced some
22 people in the audience that we've asked specifically to be
23 here today; Dr. Andy Sivak who was the contractor on the
24 animal studies that were run by A.D. Little over the past 12,
25 15 years I suppose. So welcome, Andy, and thank you for
26 being here as a resource to answer any questions about the
27 study. There is another person from the staff of the
28 Division of Physical Sciences & Engineering, Barry Belinky,
29 who worked with me originally in coming up with the