

Interoffice Memorandum

TO (Name and Location) O. W. Schnellenberger	DATE 1-15-82
M (Name and Location) H. A. Scarborough/N. A. Flaten/J. H. Pritchard	REFERENCE NO. 82 HAS-1/NF-1/JHP-1.

ASBESTOS EXPOSURE SURVEY: SPECIAL PRODUCTS AND CELANEX BLENDING

SUMMARY

The semi-annual asbestos survey for Special Products and Celanex blending is complete. No short term exposures were found to exceed OSHA 10 fiber/cc limits, although exposures ranged widely (0.03 to 2.7 fibers/cc). This same distribution had been found the first half of the year and was attributed to variances among employees in handling procedure. To help minimize asbestos exposure, it is recommended that standard operating procedures be reemphasized.

DISCUSSION

Personnel in the Special Products and Celanex units were monitored while dumping asbestos for SEO blends. With a maximum of an hour's exposure, the data can only be compared to OSHA short term exposure limits of 10 fibers/cc. In contrast, an 8 hour time weighted average should be less than the 2 fiber/cc standard.

All monitored asbestos exposures were well below the 10 fibers/cc limit, ranging from 0.03 to 2.7 fibers/cc.¹ The two highest exposures seem to be related to cleaning and disposal procedures. This same distribution of exposures was found in the first half of 1981.²

Although exposures were well below 10 fibers/cc short term exposure limits, some employees encountered exposures ten times the average of the others. Renewed effort might help minimize unnecessary exposure risks.

CONCLUSIONS AND RECOMMENDATIONS

1. The results showed no exposures to asbestos above OSHA short term exposure limits.
2. Some employees encountered exposures ten times the average of others. It is therefore recommended that standard asbestos handling procedures be reemphasized, with particular attention to clean-up and disposal.



January 15, 1982

Please review the data with personnel involved and post on your bulletin board.

N. A. Scarborough
H. A. Scarborough

Nanette Flaten
N. A. Flaten

Jim Pritchard
J. H. Pritchard

HAS/NF/JHP/11r
Attachment

References

1. It should be noted that toxic dust masks were worn in most cases, so that actual exposure will be less than survey results.
2. Flaten, N. A., et al, "Asbestos Exposure Survey", Celanese Plastics and Specialties, Bishop, 2-17-81 (NF-3-81).

cc: R. G. Brandt
E. J. Heinz
R. G. Hilbrich
G. Ille
R. D. Poirier
W. H. Meyer
A. B. Milam
D. A. Reck
File 1060.6

D. Unrue - Louisville

002491

ASBESTOS BLEND AIR MONITORING⁺

CELANEX AND SPECIAL PRODUCTS, SECOND HALF OF 1981

<u>DATE</u>	<u>SX.NO.</u>	<u>NAME/SS#/JOB</u>	<u>AREA</u>	<u>SAMPLING DURATION (MIN.)</u>	<u>EXPOSURE* (FIBERS/CC)</u>	<u>COMMENTS</u>
7-20	2906	E. L. Garcia 450-15-8276 Helper	Celx	52	0.15	3310 SEO blend, spill from torn asbestos bag, vacuumed up.
7-24	2911	Manuel Perez 463-82-7924 Helper	Celx	54	0.87	3310 SEO blend
9-22	2959	Jorge Hernandez 467-96-1746 Helper	Celx	26	2.7	3210 SEO blend, all gear
9-25	2962	Jorge Hernandez 467-96-1746 Helper	Celx	26	0.46	3310 SEO blend, all gear and goggles
10-20	2981	Jorge Hernandez 467-96-1746 Helper	Celx	8	1.7	3210 SEO blend, all gear, cleaning area
11-24	2985	Alex Lara Helper	Celx	32	1.1	3310 SEO blend, all gear gear
11-25	2986	Alex Lara Helper	Celx	31	0.22	3310 SEO blend, all gear
12-7	2992	Jesse Herrera 466-968-902 Operator	Sp. Prod. (MS409.383)	55	0.03	gloves, dust mask
12-7	2993	Ramon Vasquez 458-04-9573 Helper	Sp. Prod. (MS409,383)	54	0.1	gloves, dust mask

⁺Monitoring and analytical method according to NIOSH Method No. P & CAM 239, Phase Contrast Microscopy, performed by National Loss Control Service Corp.

*OSHA Standard for short term exposure is 10 fibers/cc.

002492

**NATLSCO****LABORATORY ANALYSIS REPORT**

National Loss Control Service Corporation
Long Grove, Illinois 60049 (312) 540-2488

ENVIRONMENTAL SCIENCES LABORATORY, A-1REPORT DATE: APRIL 28, 1982SAMPLES REC'D: APRIL 26, 1982REQUEST NUMBER: 23774

TO: HDLLY SCARBOROUGH
CELANESE PLASTICS & SPEC. CO.
P.O. BOX 1962
BISHOP, TX. 78343

RESULTS

SAMPLE NUMBER	ANALYSIS REQUESTED	FIBERS/100	FIBERS/CC		
		FIELDS			
ASB#2 (31091	ASBESTOS	3	0,17		
ASB #3 (31101	"	5	0,27		
BLANK	"	0	SUBT.		

COMMENTS: METHOD: PHASE CONTRAST MICROSCOPY,

Respectfully submitted,

Joan A. Wronski, Manager
Environmental Sciences Laboratory

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002493

**NATLSCO****LABORATORY ANALYSIS REPORT**

National Loss Control Service Corporation
Long Grove, Illinois 60049 (312) 540-2488

ENVIRONMENTAL SCIENCES LABORATORY, A-1REPORT DATE: MAY 4, 1982SAMPLES REC'D: APRIL 29, 1982REQUEST NUMBER: 16580

TO: HOLLY SCARBOROUGH
CELANESE PLASTICS CO.
P.O. BOX 1962
BISHOP, TX. 77036

RESULTS

SAMPLE NUMBER	ANALYSIS REQUESTED	FIBERS/100	FIBERS/CC		
		FIELDS			
3125	ASBESTOS	1	0.03		
3128	"	100/52	8.7		
3130	"	16	0.51		
ADD BLANK	"	0	SUBT.		

COMMENTS: METHOD: PHASE CONTRAST MICROSCOPY.

Respectfully submitted,

Joan A. Wronski P. St.
Joan A. Wronski, Manager
Environmental Sciences Laboratory

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Long Grove, IL 60049 • 312 | 540-2488

Kemper CORPORATION

Bus. Tel. No. 512-584-3511

7-12-82 RB Clean (405)

Nº 16581

ANALYSIS REQUEST

[illegible]

ANALYTICAL METHOD:

COMMENTS:

PLEASE SEND MORE FORMS

002495



LABORATORY ANALYSIS REPORT

REPORT DATE: JULY 27, 1982

SAMPLES REC'D: JULY 23, 1982

REQUEST NUMBER: 16581

RESULTS

SAMPLE NUMBER	ANALYSIS REQUESTED	FIBERS/100	FIBERS/CC		
		FIELDS			
3165-1	ASBESTOS	5	0.36		
3165-2	" "	0	<0.05		
BLANK	" "	0	SUBT.		
3164	ANTIMONY*				
BLANK	" "	NOT ANALYZED			

COMMENTS: METHOD: ASBESTOS-PHASE CONTRAST MICROSCOPY. <-MEANS LESS THAN.
*SAMPLE WAS TAKEN ON A PVC FILTER. ANTIMONY MUST BE TAKEN ON A
MIXED CELLULOSE FILTER.
Respectfully submitted,

Respectfully submitted,

John A. Wronski

Joan A. Wronski, Manager
Environmental Sciences Laboratory

ACCREDITED BY THE AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

002496



National Loss Control Service Corporation

ENVIRONMENTAL SCIENCES LABORATORY, A-1
Long Grove, IL 60049 • 312/540-2488

FEEDER SX 8-30-82

Name CELANESE PLASTICS & SPECIALTIES CO. / NAFLTEN

Title HEIMST

Firm CELINNESE PLASTICS & SPECIALTIES CO.

ANALYSIS REQUEST

Address PO Box 1962

H.C. 462477 BISHOP Tx 78343

Bus. Tel. No. (512)-584-3511 EXT 4614

26458

215

DATE SAMPLES TAKEN _____

DATE RECEIVED BY
LABORATORY

DATE COMPLETED

ANALYTICAL METHOD:

COMMENTS:

002497

**NATLSCO****LABORATORY ANALYSIS REPORT**

National Loss Control Service Corporation
Long Grove, Illinois 60049 (312) 540-2488

ENVIRONMENTAL SCIENCES LABORATORY, A-1REPORT DATE: SEPTEMBER 10, 1982SAMPLES REC'D: SEPTEMBER 9, 1982REQUEST NUMBER: 26458

TO: CELANESE PLASTICS & SPECIALTIES
P.O. BOX 1962
HIGHWAY 77
BISHOP, TX. 78343
ATTN: N.A. FLATEN

RESULTS

SAMPLE NUMBER	ANALYSIS REQUESTED	FIBERS/100	FIBERS/CC		
		FIELDS			
003168-1	ASBESTOS	2	0.10		
003168-4	"	0	<0.07		
003169-3	"	1	0.06		
003169-5	"	1	0.07		
003170-2	"	3	0.17		
003170-6	"	5	0.32		
BLANK	"	0	SUBT.		

COMMENTS: METHOD: PHASE CONTRAST MICROSCOPY. <-MEANS LESS THAN,

Respectfully submitted,

Joan Wronski /T.O.
Joan A. Wronski, Manager
Environmental Sciences Laboratory

ACCREDITED BY THE AMERICAN INDUSTRIAL HYGIENE ASSOCIATION**002498**

**NATLSCO**

National Loss Control Service Corporation

ENVIRONMENTAL SCIENCES LABORATORY, A-1
Long Grove, IL 60049 • 312/540-2488

FEEBOK 5x 9-21-62

26459Name N A FLATENFirm CELANESE PLASTICS AND SPECIALTIES CO.

Firm

Address PO Box 1962Highway 77 Bishop Tx 78343Bus. Tel. No. (512) 584-3511-EXT 464**ANALYSIS REQUEST**

FIELD NUMBER	SAMPLING VOLUME	ANALYZE FOR—	LABORATORY NO.	RESULTS
003177	42L	ANTIMONY (AA)		0.048mg/m ³
003178	14L	ANTIMONY (AA)		0.50 "
003179	40L	ASBESTOS		0.43 fibers/cc
003180	14L	ANTIMONY (AA)		0.69 mg/l
003181	52L	ANTIMONY (AA)		0.32
003182	46L	ASBESTOS		0.15
003183	46L	ASBESTOS		<0.07
BLANK	—	ASBESTOS		-
BLANK	—	ANTIMONY (AA)		-

COMMENTS:

DATE SAMPLES TAKEN

DATE RECEIVED BY
LABORATORY

DATE COMPLETED

ANALYTICAL METHOD:

002499

**NATLSCO****LABORATORY ANALYSIS REPORT**

National Loss Control Service Corporation
Long Grove, Illinois 60049 (312) 540-2488

ENVIRONMENTAL SCIENCES LABORATORY, A-1REPORT DATE: OCT. 7, 1982SAMPLES REC'D: SEPT. 30, 1982REQUEST NUMBER: 26459

TO: N. A. FLATEN
CELANESE PLASTICS & SPECIALTIES CO.,
P.O. BOX 1962 HWY 77
BISHOP, TX 78343

RESULTS

SAMPLE NUMBER	ANALYSIS REQUESTED	FIBERS/ 100 FIELDS	FIBERS/CC	MG/M ³ ANTIMONY	
003177	ANTIMONY			0.048	
003178	"			0.50	
003179	ASBESTOS	5	0.43		
003180	ANTIMONY			0.64	
003181	"			0.32	
003182	ASBESTOS	2	0.15		
003183	"	0	<0.07		
BLANK	"	0	SUBTRACTED		
BLANK	ANTIMONY			SUBTRACTED	

COMMENTS: METHOD: ANTIMONY - ATOMIC ABSORPTION < MEANS LESS THAN
ASBESTOS - PHASE CONTRAST MICROSCOPY

Respectfully submitted,

Joan A. Wronski, Manager
Environmental Sciences Laboratory

002500**ACCREDITED BY THE AMERICAN INDUSTRIAL HYGIENE ASSOCIATION**

**NATLSCO**National Loss Control Service Corporation
Long Grove, Illinois 60049 (312) 540-2488**LABORATORY ANALYSIS REPORT****ENVIRONMENTAL SCIENCES LABORATORY, A-1**REPORT DATE: SEPT. 30, 1982SAMPLES REC'D: SEPT. 27, 1982REQUEST NUMBER: 26437

TO: N. A. FLATEN
 CELANESE PLASTICS & SPECIALTIES CO.
 HIGHWAY 77
 P.O. BOX 1962
 BISHOP, TX 78343

RESULTS

SAMPLE NUMBER	ANALYSIS REQUESTED	FIBERS/ 100 FIELDS	FIBERS/CC	MG/M ³	
				CADMIUM	ANTIMONY TRIOXIDE
003175	ASBESTOS	45	2.3		
003173	"	3	0.14		
003174	"	0	<0.05		
BLANK	"	0	SUBTRACTED		
003167	CADMIUM			0.00068	
003166	"		C	0.00033	
BLANK	"			SUBTRACTED	
003172	ANTIMONY TRIOXIDE				0.033
003176	"				1.1 *
003171	"				0.81
BLANK	"				SUBTRACTED

COMMENTS: METHODS: ASBESTOS - PHASE CONTRAST MICROSCOPY < MEANS LESS THAN
 METALS - ATOMIC ABSORPTION SPECTROSCOPY

Respectfully submitted,

* NO FILTER IN CASSETTE - PAD WAS DIGESTED AND
 ANALYZED. RESULTS MAY BE AN UNDERESTIMATION.

Joan A. Wronski

Joan A. Wronski, Manager
 Environmental Sciences Laboratory

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002501

**NATLSCO**

National Loss Control Service Corporation

ENVIRONMENTAL SCIENCES LABORATORY, A-1
Long Grove, IL 60049 • 312/540-2488Name NA FLATENTitle CHEMISTFirm CELANESE PLASTICS AND SPECIALTIES Co. **ANALYSIS REQUEST**Address Hwy 77PO Box 1962 Bishop Tx 78343Bus. Tel. No. (512) 584-3511 Ext 4614

RIBBON BLENDER CLEAN 9-7-82

7-29-82
26437

FIELD NUMBER	SAMPLING VOLUME	ANALYZE FOR—	LABORATORY NO.	RESULTS
003175	68	ASBESTOS		2.3 fibers/cc
003173	72	"		0.14 "
003171	70	"		<0.05 "
BLANK	—	"		—
003167	148	CADMIUM		0.00068 mg/m ³
003166	150	"		0.00033 "
BLANK	—	"		—
003172	72	ANTIMONY TRIOXIDE (AA)		0.033 mg/m ³
003176	66	"		1.1 " *
003171	40	"		0.81 "
BLANK	—	"		—

COMMENTS:

DATE SAMPLES TAKEN

DATE RECEIVED BY
LABORATORY

DATE COMPLETED

ANALYTICAL METHOD:

002502