



· CELANESE CHEMICAL COMPANY
Chemcel Plant
Bishop, Texas

To: M.P. Neff

From: A.E. Retherford - *BR* AER-07-77

March 7, 1977

OSHA Compliance Asbestos
Measurements in Celanex Unit

Attached are the results of airborne asbestos monitoring during two Celanex production runs; Celanex Phase I production of SEO 3210 and SEO 3310. The frequency of sampling is in accordance with the Occupational Safety and Health Act, Section 1910.1001 (Appendix 1).

Measurements were obtained by attaching the monitoring equipment to operating personnel during the blending and handling of the asbestos fiber material. Analysis was carried out by National Loss Control Service Corporation, Long Grove, Illinois, accredited by the American Industrial Hygiene Association. The National Loss Control Laboratory analysis report is attached. The eight hour time weighted averages, reported in Table I, were calculated from this information.

A.E. Retherford

A.E. Retherford

AER/kap

Attachments

cc: Messrs. G.D. Boyd - Chemical
C.W. Harrison
W.H. Meyer

A.C. Abshier - Plastics
C.A. Amond
W.C. Beyer
W.H. Brough
J.T. Gore
E. Munoz
P.M. Sykes

W.T. McNair - CCCTC
Central Files (2)

J.M. Ramey - NYO

UNITERMS
OSHA
Asbestos
Compliance
Celanex

003958

File: 259.0

Asbestos Measurements Results

Name (Social Security No.)	Date	Job Description	8-hour Time weighted average exposure(1, 2, 3) fibers/cc	Highest exposure(2) fibers/cc
Davio Gonzales (457-96-6018)	8-19-76	Operator Helper	< 0.01	< 0.1
Tom Augustine (61-21-8390)	8-19-76	Utility Person	< 0.01	< 0.1
Davio Gonzales (457-96-6018)	11-09-76	Operator Helper	0.02	0.1
Charles L. Cooke (449-92-1610)	11-09-76	Utility Person	< 0.02	< 0.1

Calculation of 8-hour TWA, Federal Register, Vol. 39, No. 125, Page 23540.

-) Permissible 8-hour TWA exposure to airborne concentrations of asbestos fibers, ≤ 2 fibers, longer than 5 micrometers, per cubic centimeter of air.
ceiling concentration: 10 fibers, longer than 5 micrometers, per cubic centimeter of air, at any time.
-) Method of analysis: Phase microscopy fiber counting by National Loss Control Laboratory, Long Grove, Illinois.

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NATIONAL LOSS CONTROL SERVICE CORPORATION

ENVIRONMENTAL SCIENCES LABORATORY, A-1

Long Grove, IL 60049 • 312 | 540-2488



LABORATORY ANALYSIS REPORT

REPORT DATE: JANUARY 21, 1977

SAMPLES REC'D: JANUARY 11, 1977

REQUEST NUMBER: 01637

TO: CELANESE PLASTICS Co.
BOX 428
BISHOP, TX 78343

ATTN: ANN RETHERFORD

RESULTS

SAMPLE NUMBER	ANALYSIS REQUESTED				
		FIBERS/CC			
	ASBESTOS FIBER COUNT				
11091		0.1			
11092		<0.1			
BLANK		BLANK SUBTRACTED BEFORE CALCULATIONS.			

COMMENTS:

RESPECTFULLY SUBMITTED,

Betty S. O'Shea
BETTY S. O'SHEA, MANAGER
ENVIRONMENTAL SCIENCES LABORATORY
CERTIFIED INDUSTRIAL HYGIENE CHEMIST

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NATIONAL LOSS CONTROL SERVICE CORPORATION

ENVIRONMENTAL SCIENCES LABORATORY, A-1

Long Grove, IL 60049 • 312 | 540-2488



LABORATORY ANALYSIS REPORT

REPORT DATE: October 14, 1976SAMPLES REC'D: October 7, 1976REQUEST NUMBER: 00999

TO: Celanese Plastics Co.
P.O. Box 428
Bishop, Texas 78343

Attention: A. Retherford

RESULTS

SAMPLE NUMBER	ANALYSIS REQUESTED	Asbestos	Benzenes		
		fibers/cc	ppm		
8192	Asbestos Fiber Count	< 0.1			
8191	Asbestos Fiber Count	< 0.1			

Blank (added)	Asbestos	Subtracted from samples before calculation.			
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COMMENTS: < = less than.
The analytical methods used were asbestos - Phase Microscopy
~~and~~ - ~~and~~ ~~Chromatography~~.

Respectfully submitted,

Betty S. O'Shea

Betty S. O'Shea, Manager

Environmental Science Laboratory

Certified Industrial Hygiene Chemist

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