

CENTRAL RESEARCH AND DEVELOPMENT DEPARTMENT
HASKELL LABORATORY FOR TOXICOLOGY
AND INDUSTRIAL MEDICINE

April 15, 1988

MEMORANDUM

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FROM: R. C. GRAHAM, AEL COMMITTEE SECRETARY

RC Graham

AEL COMMITTEE NOTES

(Next Meeting - Wednesday May 11, 1988 - Haskell Laboratory
Haskell Laboratory Room #619 Starting at 9:00 a.m.)

1. Minutes of April 13, 1988 Meeting

(a). Decision Items

Carbitol® Acetate (PPD)	10 ppm (8- and 12-hour TWA).
Chlorine (C&P)	CEG = 0.05 ppm (24-hour TWA).
Dodecanedioic Acid (PPD)	5 mg/m ³ (8- and 12-hour TWA), respirable dust.
	10 mg/m ³ (8- and 12-hour TWA), total dust.
	CEG = 0.5 mg/m ³ (24-hour TWA), total dust.
Formaldehyde (PPD)	CEG = 0.2 ppm (24-hour TWA).

Continued Discussion Items

Lead (C&P)

Benzene (C&P) -

Dibasic Esters (Update Subcommittee)

These items were continued. Benzene will be discussed at the May meeting. Dibasic Esters will be continued until ongoing studies being conducted at Haskell are completed. Lead will be continued until an ongoing review of the extensive toxicity data base is completed.

2. Agenda for May 11, 1988 Meeting

(a). Decision Items

Chloroprene (PPD)	CEG = 0.5 ppm (24-hour TWA).
Ethanolamine (PPD)	CEG = 0.3 ppm (24-hour TWA).
Fiber Glass (Fibers Subcommittee)	AEL = 5 fibers/cc (8-hour TWA), fibers > 5 microns long, < 5 microns in diameter, and with an aspect ratio of > 3:1.

(b). Finalization Items

Acrylonitrile (PPD)	CEG = 20 ppb (24-hour TWA).
2-Ethylhexanol (PPD)	AEL = 20 ppm (8-hour TWA).
Tetraethyleneglycol Diacrylate (ED)	AEL = 0.5 mg/m ³ (8- and 12-hour TWA).

(c). Discussion Items

Benzaldehyde (ED)

Benzaldehyde has slight acute oral toxicity with an LD50 in rats of 1300 mg/kg. Benzaldehyde was not a skin irritant or sensitizer when tested on the skin of guinea pigs. No deaths occurred in a group of six rats exposed to 1525 ppm of a benzaldehyde:Zonyl® A (20:1) mixture. No adverse effects were observed in rats fed 1000 or 10,000 ppm of benzaldehyde in their diet for up to 28 weeks. In a two-week inhalation study, no adverse effects were observed in rats exposed to 185 ppm of the benzaldehyde-Zonyl® A mixture mentioned above. Benzaldehyde has 2 ppm (8-hour TWA) and 4 ppm (15-minute TWA) WEELs that were established in 1985.