



STATE OF OHIO
THE INDUSTRIAL COMMISSION OF OHIO
DIVISION OF SAFETY AND HYGIENE
2325 WEST FIFTH AVENUE
P.O. BOX 1745
COLUMBUS, OHIO 43216

PLAINTIFF'S EXHIBIT

K-2077

PHONE (614) 466-3365

Co file

Industrial Commission
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June 28, 1976

Division of Safety and Hygiene
WILLIAM L. MURPHY
Superintendent
BOB RILEY
Asst. Superintendent

Risk # SI-2823

Owens Illinois
P.O. Box 285
Berlin, Ohio

Attn: Lyman Hostetler

Dear Mr. Hostetler:

On May 26, 1976 an industrial hygiene inspection was conducted throughout the plant.

The only air samples taken were for carbon monoxide. They were taken at various locations throughout the plant. The samples were taken using a Draeger hand pump plus Draeger direct reading carbon monoxide tubes. The readings ranged between 5 and 35 parts per million (ppm) in the breathing zone of various employees. The American Conference of Governmental Industrial Hygienists (ACGIH) recommends a Threshold Limit Value (TLV) of 50 parts per million (ppm).

No other samples were taken because the writer felt such samples were not necessary. This statement is directed to the styrene molding operations. Because of sampling conducted in the past, the writer has determined that with current knowledge of toxic material, a health hazard does not exist when some plastics (i.e. styrene) are run at normal operating temperature. When plastics decompose (i.e. burn) then a health hazard exists. The decomposition products will be discussed below. No machines during the time of the survey were noted to be decomposing the plastics.

The following are observations and recommendations offered for your consideration:

- A. One molding machine brought to my attention had what appeared to be a tendency to leak plastic from the cylinder. This leaking plastic has a tendency to get very hot and possibly decompose. Decomposing styrene plastic will release noxious materials, some of these being carbon monoxide, acrolein, hydrogen cyanide, formaldehyde, and styrene. When possible, prevent the decomposition of any plastic material.
- B. The carbon monoxide levels were below the TLV. This was due, I feel, to good dilution ventilation and at the time of the inspection well tuned lift truck. For these carbon monoxide levels to be maintained at the low concentration the above factors must be maintained.

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C. When you get the analyxix for the cellophane, if you still wish for the Division to assist you please contact us.

Lastly, if you should require further assistance from the Division in the future, contact E.W. Tyler, Department Head, Industrial Hygiene and Safety.

Sincerely yours,

A handwritten signature in cursive script that reads "Dale Selchan". The signature is fluid and written in dark ink.

Dale Selchan
Industrial Hygienist

jw

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