

Monsanto INDUSTRIAL CHEMICALS CO.

JUN 11 1975

FROM (NAME & LOCATION): M. W. Dietrich - T2B

DATE: June 6, 1975

SUBJECT: METHOD VALIDATION: ORGANIC
CHEMICALS IN AIR

REFERENCE:

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Late last year, we began a cooperative program with the Monsanto Medical Department on developing methodology to verify that workers in our plants are not being exposed to hazardous levels of a wide variety of organic chemicals. The procedure involves a portable sample collector which is worn by the worker during his regular work shift. Sampling times from 1 minute to 8 hours have been used. Collected samples are later analyzed by GC or GC/MS in our laboratories.

During this summer, we plan to carefully validate this procedure for 20 or 30 organic chemicals of particular interest to Monsanto. We plan to do this using simulated 6 hour exposures with levels from .1 to 10 times the threshold limit value for each chemical. The chemicals we propose to study are given below; this list has been reviewed with J. Garrett. If you would like to see changes and/or additions to this list, please contact by June 14.

Acrylonitrile	✓ Maleic Anhydride
✓ Aroclor 1016	✓ Monochloroacetic Acid
✓ Benzene	✓ Monochlorobenzene
✓ Benzothiazole	✓ Monochlorophenol
✓ Benzoic Acid	✓ p-Nitroaniline
✓ Benzyl Chloride	✓ Nitro Chlorobenzene
✓ Biphenyl	✓ 4-Nitro Diphenyl Amine
✓ Bischloroethyl Ether	✓ Phenol
✓ Butyl Alcohol	✓ Santocure or Santoflex
✓ t-Butyl Amine	✓ Santicizer 711
✓ Butyl Mercaptan	✓ Styrene
✓ Dichloropropane	✓ Toluene Diisocyanate
Dichloropropene	Vinyl Bromide

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