



MANUFACTURING CHEMISTS ASSOCIATION

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R. N. WHEELER

November 19, 1971

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To: Vinyl Chloride Producers

Subject: Trace impurities in vinyl chloride monomer

Gentlemen:

Interested members of the vinyl chloride industry are now considering a proposal to conduct studies in which animals will be subjected to long-term exposures to vinyl chloride monomer. In order that the test materials be properly representative of current American practice, we are requesting that you provide the following data on (a) your current industrial product, and, (b) a "highest purity" product you would be willing to provide in tonnage quantities to a guaranteed analysis specification.

Requested Data

1. Production process (identified by appropriate patent reference or commercial process description.)
2. Raw material source, i.e., acetylene from calcium carbide, from hydrocarbon cracking, etc.
3. Assay: Minimum____% Typical____% Maximum____%
4. Identified impurities:

	Minimum	Typical	Maximum
a.	ppm	ppm	ppm
b.	ppm	ppm	ppm
c. etc.			

For each item under question (4) please identify method of analysis and limits of detection. A copy of the list of the impurities reported as being in material used in an earlier European study is attached for your information.



Particularly for compounds that may be suspected of being highly toxic or carcinogenic (such as methyl chloride, methyl bromide, or bischloromethyl ether), presence or absence at the fractional ppm level may be of interest.

Sincerely,


Kenneth D. Johnson
Staff Representative

KDJ/cj
Enclosures

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Impurities Present in Vinyl Chloride Monomer

1,2 dichloroethane	Acetylene
1,2 dichloropropane	Cyclopropane
Tetrachloroethylene	1-Butene
1,1,2-trichloroethane	Isobutene
Acetaldehyde	2-Butene-trans
1,2 dichloroethylene-trans	2-Butene-cis
1,2 dichloroethylene-cis	Allene
Chloroprene	1,2 Butadiene
Methylene chloride	Methylacetylene
1,1 dichloroethane	Methyl chloride
Carbon tetrachloride	Ethylacetylene
1,1,1 trichloroethane	2-Chloropropene
Chloroform	Ethyl chloride
Trichloroethylene	1-Chloro-1-propene-trans
Benzene	1-Chloro-1-propene-cis
Water	n-propyl chloride
Ethane	Vinylidene chloride
Ethylene	Isopropyl chloride
Propane	Vinyl bromide
Isobutane	n-pentane
Carbon dioxide	Isopentane
Propylene	Methane
n-Butane	Mercury



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