



MONOCHEM INC.

POST OFFICE BOX 488

GEISMAR, LOUISIANA 70734

BATON ROUGE TELEPHONE
504 348-6681

DUTCHTOWN TELEPHONE
504 673-0161

October 14, 1971

FILE

Mr. G. A. Anderson
UNIROYAL Chemical
Division of UNIROYAL, Inc.
Naugatuck, Connecticut 06770

Mr. J. V. Lynn
Borden, Inc.
50 West Broad Street
Columbus, Ohio 43215

Gentlemen:

Subject: Vinyl Chloride Monomer Specifications and Typical Analyses

For your information I would like to give you an updated look at Monochem monomer quality with a few comments.

Contaminant	Specification	Typical Production	
		New Catalyst	Old Catalyst
Acetaldehyde	5 ppm max.	< 0.1	< 0.1
Acidity as HCl	10 ppm max.	< 0.1	< 0.1
Appearance	C & C	C & C	C & C
Iron	0.5 ppm max.	< 0.03	< 0.03
Sulfur	3 ppm max.	< 1.0	< 1.0
Water	100 ppm	-----24-30 ppm-----	-----24-30 ppm-----
Acetylene	2 ppm max.	ND	ND
Isobutane	No spec.	-----1-1 1/2 ppm-----	-----1-1 1/2 ppm-----
N-butane	No spec.	-----5-10 ppm-----	-----5-10 ppm-----
Propadiene	5 ppm max.	ND	ND
Butene-1	No spec.	2 ppm	10 ppm
Methyl acetylene	2 ppm max.	1 ppm	2 ppm
Butadiene	6 ppm max.	1 ppm	4 ppm
Methyl chloride	No spec.	0.5 ppm	0.5 ppm
Vinyl acetylene	0.3 ppm max.	ND	ND
2 chloropropene-1	No spec.	ND	ND
Methane	No spec.	ND	ND
Ethane or ethylene	No spec.	ND	ND
Propane	No spec.	ND	ND
Propylene	No spec.	ND	ND
Butene-2(trans.)	No spec.	ND	ND
Butene-2(cis.)	No spec.	ND	ND
Ethyl chloride	No spec.	ND	ND

We have on occasion reported the presence of vinyl acetylene; we now know that this component is not vinyl acetylene but is 2-chloropropene-1. A slight breakthrough in analytical technique has brought this to our attention.

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SAFETY AND
PLANT PROTECTION

UPL 02523

Mr. G. A. Anderson
Mr. J. V. Lynn

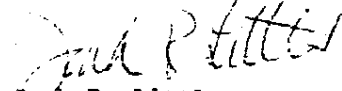
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You will notice that catalyst age; i.e., higher catalyst temperature, causes a slight downgrading of the monomer in that butene-1, methyl acetylene and butadiene all tend to be in higher concentrations and therefore more difficult to remove. Butane and iso-butane indicate the degree to which we are pushing the acetylene plant.

We now have recharged the reactors so the monomer we are now producing will be as shown under the new catalyst column with a slight downgrading toward the old catalyst column over a two-year period.

Very truly yours,



Jack R. Little
Vice President
in Charge of Operations

cc: Mr. J. S. Bellecci

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