

May 24, 1974

Mr. Thomas J. McGrath
The Society of the Plastics
Industry, Inc.
250 Park Avenue
New York, New York 10017

Dear Mr. McGrath:

As requested in your letter of May 6, 1974,
we have completed questionnaires, which are enclosed,
for six locations. Five of the locations are
polymerization plants; the sixth is a monomer plant.
Please forgive the delay in returning these questionnaires
to you.

Sincerely yours,

W. J. Wilcox
Manager, Employee Relations

WJW:sc

cc: J. L. Nelson
E. W. Harrington

23275001

BFG24735

PLANT A =
P. Dickinson

Plant B =
hounselle

Plant C =
Long Beach

Plant D = Henry

Plant E = Culbert

Plant F = AL6C

23275002

BFG24736

SP

J. K. Nelson
THE SOCIETY OF THE PLASTICS INDUSTRY, INC. ,

250 PARK AVENUE • NEW YORK, NEW YORK 10017 • 212/687-2675

F

Calumet City (Illinois)

Av Lake

Long Beach

Henry

Louisville

P Town

May 6, 1974

TO: MEMBERS OF THE VINYL MONOMERS AND
PVC PRODUCERS AD HOC COMMITTEE

Gentlemen:

The attached questionnaire is an attempt to gather some data which could be used in a presentation at OSHA hearings on a permanent standard for vinyl chloride monomer.

The basic concept is that there are many polymerization and monomer plants in which there have been no cases of angiosarcoma. We must show that significant numbers of people are involved and that these people have been exposed long enough for the disease to become evident. We must also try to show what degrees of severity of exposure occurred in these operations. We must at least derive the implication that TWA exposure levels were at least 50 ppm and possibly higher.

Since we do not know when a permanent standard will issue, we must plan for the worst and handle this like a "crash" program. Please try to complete this form and return it to SPI offices by May 15, 1974 at the latest.

Cordially,

Thomas J. McGrath

Thomas J. McGrath
Director of Packaging Services

TJM/mm
att.

23276001

BFG24737

SP

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

250 PARK AVENUE • NEW YORK, NEW YORK 10017 • 212/687-2675

QUESTIONNAIRE ON VINYL CHLORIDE EXPOSURE

PLANT E

Exposure Levels:

1. Odor of vinyl chloride monomer present throughout much of the day.
From years _____ to _____.
2. Odor of VCM present occasionally during the work day.
From years 1951 to Present.
3. Odor of VCM a rare event in any work day.
From years _____ to _____.
4. Have there been process or processing changes introduced which have resulted in an increased escape of VCM.
List years when these occurred.
NO
5. Have there been process or processing changes introduced which have resulted in a reduction in the escape of VCM.
List years when these occurred.
1970, 1973, 1974
6. Do you have environmental measurements prior to 1970?
Yes ☒ No ☐ - infrequent measurements
G.C.?

Exhaust system

Personnel Exposure Data:

1. When did the plant start to work with VCM?
Give year 1951.
2. How many employees are working with VCM?
Give number 35.
3. How many employees are still working for you who once worked with VCM but do not do so now?
Give number 5.
4. Of the persons identified in 2 and 3 above give the number who have been exposed for the following time intervals.

BFG24738

23276002

More than 1 and up to 10 years
 10 and up to 15 years
 15 and up to 20 years
 20 and up to 25 years
 25 years and more

458
56
39
18
13

5. Of the persons identified in 2 and 3 above give the number falling within each latent period given below and considering only employees with more than one years service. A latent period is the time lapse from first exposure to the present date.

More than 1 and up to 10 years
 10 and up to 15 years
 15 and up to 20 years
 20 and up to 25 years
 25 years and more

334
126
71
40
31

Data From Current Examination Programs

1. Give the number of persons who have been examined since January, 1974. 653.
2. Were liver profile studies made?
 Yes _____ No _____.
3. Did the studies include at least bilirubin, SGOT, LDH and alkaline phosphatase?
 Yes ✓ No _____.
4. How many of those examined showed an abnormality in:
 one test 108
 two tests 20
 three or more tests —
5. Have you had any cases of angiosarcoma?
 Yes _____ No ✓ _____.
6. Was this determination made by your own survey?
 Yes ✓ No _____.

23276003

BFG24739

7. What per cent of the total exposed population was covered in the survey? 99.
8. Were retired personnel included?
Yes ✓ No _____.
9. Were persons who had left your employ and gone to work elsewhere included?
Yes _____ No ✓.
10. Did you review causes of death of those who died while still employed by you?
Yes ✓ No _____.
11. Did your plant participate in the Tabershaw-Cooper epidemiologic survey?
Yes ✓ No _____.

May 3, 1974

BFG24740

23276004

SPI

J. L. Nelson
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

250 PARK AVENUE • NEW YORK, NEW YORK 10017 • 212/687-2675

Richard L. Nelson

A

Calumet City, (Monmouth)

Av Lake

Long Beach

Henry

Louisville

PTown

May 6, 1974

TO: MEMBERS OF THE VINYL MONOMERS AND
PVC PRODUCERS AD HOC COMMITTEE

Gentlemen:

The attached questionnaire is an attempt to gather some data which could be used in a presentation at OSHA hearings on a permanent standard for vinyl chloride monomer.

The basic concept is that there are many polymerization and monomer plants in which there have been no cases of angiosarcoma. We must show that significant numbers of people are involved and that these people have been exposed long enough for the disease to become evident. We must also try to show what degrees of severity of exposure occurred in these operations. We must at least derive the implication that TWA exposure levels were at least 50 ppm and possibly higher.

Since we do not know when a permanent standard will issue, we must plan for the worst and handle this like a "crash" program. Please try to complete this form and return it to SPI offices by May 15, 1974 at the latest.

Cordially,

Thomas J. McGrath

Thomas J. McGrath
Director of Packaging Services

TJM/um
att.

23277001

BFG24741

SP

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
250 PARK AVENUE • NEW YORK, NEW YORK 10017 • 212/687-2675

QUESTIONNAIRE ON VINYL CHLORIDE EXPOSURE

Exposure Levels:

1. Odor of vinyl chloride monomer present throughout much of the day. — 0 —
From years _____ to _____.
2. Odor of VCM present occasionally during the work day.
From years — 0 — to _____.
3. Odor of VCM a rare event in any work day.
From years 1969 to Present.
4. Have there been process or processing changes introduced which have resulted in an increased escape of VCM.
List years when these occurred.
No
5. Have there been process or processing changes introduced which have resulted in a reduction in the escape of VCM.
List years when these occurred.
Yes - 1974
6. Do you have environmental measurements prior to 1970?
Yes _____ No ✓.

Personnel Exposure Data:

1. When did the plant start to work with VCM?
Give year 1969.
2. How many employees are working with VCM?
Give number 65.
3. How many employees are still working for you who once worked with VCM but do not do so now?
Give number 30.
4. Of the persons identified in 2 and 3 above give the number who have been exposed for the following time intervals.

BFG24742

23277002

More than 1 and up to 10 years
10 and up to 15 years
15 and up to 20 years
20 and up to 25 years
25 years and more

95

5. Of the persons identified in 2 and 3 above give the number falling within each latent period given below and considering only employees with more than one years service. A latent period is the time lapse from first exposure to the present date.

More than 1 and up to 10 years
10 and up to 15 years
15 and up to 20 years
20 and up to 25 years
25 years and more

95

Data From Current Examination Programs

1. Give the number of persons who have been examined since January, 1974. 245.
2. Were liver profile studies made?
Yes ☒ No ☐.
3. Did the studies include at least bilirubin, SGOT, LDH and alkaline phosphatase?
Yes ☒ No ☐.
4. How many of those examined showed an abnormality in:
one test 83
two tests 17
three or more tests -
5. Have you had any cases of angiosarcoma?
Yes ☐ No ☒.
6. Was this determination made by your own survey?
Yes ☒ No ☐.

23277003

BFG24743

7. What per cent of the total exposed population was covered in the survey? 99%.
8. Were retired personnel included?
Yes _____ No ☒.
9. Were persons who had left your employ and gone to work elsewhere included?
Yes _____ No ☒.
10. Did you review causes of death of those who died while still employed by you?
Yes ☒ No _____.
11. Did your plant participate in the Tabershaw-Cooper epidemiologic survey?
Yes _____ No ☒.

May 3, 1974

23277004

BFG24744

SPI

J. K. Nelson
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

250 PARK AVENUE • NEW YORK, NEW YORK 10017 • 212/687-2675

C

Calumet City (Monroe)

Av Lake

Long Beach

Henry

Louisville

P-Town

May 6, 1974

TO: MEMBERS OF THE VINYL MONOMERS AND
PVC PRODUCERS AD HOC COMMITTEE

Gentlemen:

The attached questionnaire is an attempt to gather some data which could be used in a presentation at OSHA hearings on a permanent standard for vinyl chloride monomer.

The basic concept is that there are many polymerization and monomer plants in which there have been no cases of angiosarcoma. We must show that significant numbers of people are involved and that these people have been exposed long enough for the disease to become evident. We must also try to show what degrees of severity of exposure occurred in these operations. We must at least derive the implication that TWA exposure levels were at least 50 ppm and possibly higher.

Since we do not know when a permanent standard will issue, we must plan for the worst and handle this like a "crash" program. Please try to complete this form and return it to SPI offices by May 15, 1974 at the latest.

Cordially,

Thomas J. McGrath

Thomas J. McGrath
Director of Packaging Services

TJM/mm
att.

23278001

BFG24745

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250 PARK AVENUE • NEW YORK, NEW YORK 10017 • 212/687-2675

QUESTIONNAIRE ON VINYL CHLORIDE EXPOSURE

Exposure Levels:

1. Odor of vinyl chloride monomer present throughout much of the day.
From years — to — .
2. Odor of VCM present occasionally during the work day.
From years 1960 to 1969.
3. Odor of VCM a rare event in any work day.
From years 1970 to PRESENT.
4. Have there been process or processing changes introduced which have resulted in an increased escape of VCM.
List years when these occurred.
NO
5. Have there been process or processing changes introduced which have resulted in a reduction in the escape of VCM.
List years when these occurred.
1960 TO PRESENT - gradual changes in process to reduce escape of vcm
6. Do you have environmental measurements prior to 1970?
Yes No ✓

Personnel Exposure Data:

1. When did the plant start to work with VCM?
Give year 1960.
2. How many employees are working with VCM?
Give number 89.
3. How many employees are still working for you who once worked with VCM but do not do so now?
Give number 0.
4. Of the persons identified in 2 and 3 above give the number who have been exposed for the following time intervals.

23278002

BFG24746

More than 1 and up to 10 years ✓ 84
10 and up to 15 years _____
15 and up to 20 years _____
20 and up to 25 years _____
25 years and more _____

5. Of the persons identified in 2 and 3 above give the number falling within each latent period given below and considering only employees with more than one years service. A latent period is the time lapse from first exposure to the present date.

More than 1 and up to 10 years ✓ 84
10 and up to 15 years _____
15 and up to 20 years _____
20 and up to 25 years _____
25 years and more _____

Data From Current Examination Programs

1. Give the number of persons who have been examined since January, 1974. 149.
2. Were liver profile studies made?
Yes _____ No _____.
3. Did the studies include at least bilirubin, SGOT, LDH and alkaline phosphatase?
Yes _____ No _____.
4. How many of those examined showed an abnormality in:
one test 30
two tests 4
three or more tests -
5. Have you had any cases of angiosarcoma?
Yes _____ No ✓ _____.
6. Was this determination made by your own survey?
Yes ✓ _____ No _____.

23278008

BFG24747

7. What per cent of the total exposed population was covered in the survey? 100% .99%
8. Were retired personnel included?
Yes _____ No ✓ _____.
9. Were persons who had left your employ and gone to work elsewhere included?
Yes _____ No ✓ _____.
10. Did you review causes of death of those who died while still employed by you?
Yes _____ No _____.
11. Did your plant participate in the Tabershaw-Cooper epidemiologic survey?
Yes ✓ _____ No _____.

May 3, 1974

23278004

BFG24748

SP

J. K. Nelson
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
250 PARK AVENUE • NEW YORK, NEW YORK 10017 • 212/687-2675

Henry - E

Calumet City, (Illinois)
Av Lake
Long Beach
Henry
Louisville
P. Town

May 6, 1974

TO: MEMBERS OF THE VINYL MONOMERS AND
PVC PRODUCERS AD HOC COMMITTEE

Gentlemen:

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The basic concept is that there are many polymerization and monomer plants in which there have been no cases of angiosarcoma. We must show that significant numbers of people are involved and that these people have been exposed long enough for the disease to become evident. We must also try to show what degrees of severity of exposure occurred in these operations. We must at least derive the implication that TWA exposure levels were at least 50 ppm and possibly higher.

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Cordially,

Thomas J. McGrath

Thomas J. McGrath
Director of Packaging Services

TJM/mm
att.

23280001

BFG24753

SP

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
250 PARK AVENUE • NEW YORK, NEW YORK 10017 • 212/687-2675

QUESTIONNAIRE ON VINYL CHLORIDE EXPOSURE

Exposure Levels:

1. Odor of vinyl chloride monomer present throughout much of the day.
From years _____ to _____.
2. Odor of VCM present occasionally during the work day.
From years 1965 to 1973.
3. Odor of VCM a rare event in any work day.
From years 1974 to _____.
4. Have there been process or processing changes introduced which have resulted in an increased escape of VCM.
List years when these occurred.
_____.
5. Have there been process or processing changes introduced which have resulted in a reduction in the escape of VCM.
List years when these occurred.
1973.
6. Do you have environmental measurements prior to 1970?
Yes _____ No ✓ - explosion meter Tests since 1965

Personnel Exposure Data:

1. When did the plant start to work with VCM?
Give year 1962.
2. How many employees are working with VCM?
Give number 100.
3. How many employees are still working for you who once worked with VCM but do not do so now?
Give number 15.
4. Of the persons identified in 2 and 3 above give the number who have been exposed for the following time intervals.

BFG24754

23280002

More than 1 and up to 10 years	<u>115</u>
10 and up to 15 years	<u> </u>
15 and up to 20 years	<u> </u>
20 and up to 25 years	<u> </u>
25 years and more	<u> </u>

5. Of the persons identified in 2 and 3 above give the number falling within each latent period given below and considering only employees with more than one years service. A latent period is the time lapse from first exposure to the present date.

More than 1 and up to 10 years	<u>115</u>
10 and up to 15 years	<u> </u>
15 and up to 20 years	<u> </u>
20 and up to 25 years	<u> </u>
25 years and more	<u> </u>

Data From Current Examination Programs

1. Give the number of persons who have been examined since January, 1974. 301.
2. Were liver profile studies made?
Yes No .
3. Did the studies include at least bilirubin, SGOT, LDH and alkaline phosphatase?
Yes No .
4. How many of those examined showed an abnormality in:
one test 2
two tests -
three or more tests -
5. Have you had any cases of angiosarcoma?
Yes No .
6. Was this determination made by your own survey?
Yes No .

BFG24755

23280003

7. What per cent of the total exposed population was covered in the survey? 99.
8. Were retired personnel included?
Yes ☒ No ☐.
9. Were persons who had left your employ and gone to work elsewhere included?
Yes ☐ No ☒.
10. Did you review causes of death of those who died while still employed by you?
Yes ☒ No ☐.
11. Did your plant participate in the Tabershaw-Cooper epidemiologic survey?
Yes ☒ No ☐.

May 3, 1974

23280004

BFG24756

SP

J. L. Nelson
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

250 PARK AVENUE • NEW YORK, NEW YORK 10017 • 212/687-2675

Calvey
E

Calvert
Calvert City (Monmouth)

Av Lake

Long Beach

Henry

Louisville

P. Town

May 6, 1974

TO: MEMBERS OF THE VINYL MONOMERS AND
PVC PRODUCERS AD HOC COMMITTEE

Gentlemen:

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Cordially,

Thomas J. McGrath

Thomas J. McGrath
Director of Packaging Services

TJM/mm
att.

BFG24757

23281001

SP

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
250 PARK AVENUE • NEW YORK, NEW YORK 10017 • 212/687-2675

QUESTIONNAIRE ON VINYL CHLORIDE EXPOSURE

Exposure Levels:

1. Odor of vinyl chloride monomer present throughout much of the day.
From years _____ to _____.
2. Odor of VCM present occasionally during the work day.
From years 1953 to 1963.
3. Odor of VCM a rare event in any work day.
From years 1953 to Present.
4. Have there been process or processing changes introduced which have resulted in an increased escape of VCM.
List years when these occurred.
No
5. Have there been process or processing changes introduced which have resulted in a reduction in the escape of VCM.
List years when these occurred.
1963, 1973
6. Do you have environmental measurements prior to 1970?
Yes _____ No ✓.

Personnel Exposure Data:

1. When did the plant start to work with VCM?
Give year 1953.
2. How many employees are working with VCM?
Give number 140.
3. How many employees are still working for you who once worked with VCM but do not do so now?
Give number 50.
4. Of the persons identified in 2 and 3 above give the number who have been exposed for the following time intervals.

BFG24758

23281002

More than 1 and up to 10 years	<u>125</u>
10 and up to 15 years	<u>50</u>
15 and up to 20 years	<u>15</u>
20 and up to 25 years	<u> </u>
25 years and more	<u> </u>

5. Of the persons identified in 2 and 3 above give the number falling within each latent period given below and considering only employees with more than one years service. A latent period is the time lapse from first exposure to the present date.

More than 1 and up to 10 years	<u>50</u>
10 and up to 15 years	<u>125</u>
15 and up to 20 years	<u>15</u>
20 and up to 25 years	<u> </u>
25 years and more	<u> </u>

Data From Current Examination Programs

1. Give the number of persons who have been examined since January, 1974. 589.
2. Were liver profile studies made?
Yes No .
3. Did the studies include at least bilirubin, SGOT, LDH and alkaline phosphatase?
Yes No .
4. How many of those examined showed an abnormality in:
one test 117
two tests 3
three or more tests -
5. Have you had any cases of angiosarcoma?
Yes No .
6. Was this determination made by your own survey?
Yes No .

BFG24759

23281003

7. What per cent of the total exposed population was covered in the survey? ~~100%~~ 99%
8. Were retired personnel included?
Yes ✓ No .
9. Were persons who had left your employ and gone to work elsewhere included?
Yes No ✓.
10. Did you review causes of death of those who died while still employed by you?
Yes ✓ No .
11. Did your plant participate in the Tabershaw-Cooper epidemiologic survey?
Yes ✓ No .

May 3, 1974

*Since 1965 - 70 ESC
102 pulled to 100
203 total now 100
S. Light
J. H. H. H.*

BFG24760

23281004