

Try to get newest numbers

DISTRIBUTION OF ASL CASES*

for the #1 next few graphs?

BY COUNTRY:

Feb
through 1991

U.S.A.	88 39
WEST GERMANY	38
FRANCE	22 28
U.K.	13 16
CANADA	12 13
SWEDEN	5
ITALY	5 8
YUGOSLAVIA	4
JAPAN	3
CZECHOSLOVAKIA	2
BELGIUM	2
NORWAY	1
SPAIN	1
AUSTRALIA	1
TOTAL	138 101

* CASES SINCE 1955 IN WORLD
EXCLUDES COMMUNIST COUNTRIES

NOTES:
* INCLUDES 3 MONOMER WORKERS

Make sure these are
specified for PVC plants.

DISTRIBUTION OF ASL CASES

2

(THROUGH FEBRUARY, 1991)

BY AREAS:

NORTHERN EUROPE	79 97
NORTH AMERICA	50
OTHER	9 10
TOTAL	138 157

BY PLANTS:

BFG, LOUISVILLE, KY	15
BFG, SWAVINIGAN, CANADA	12
UCC, SOUTH CHARLESTON, W.V.	10 9
GY, NIAGARA FALLS, N.Y.	<u>5</u>
TOTAL	42 41

- OF 50² CASES IN NORTH AMERICA,
42 ARE CLUSTERED IN 4 PLANTS.

- ALL U.S. CASES HAVE BEEN IN
PLANTS BUILT PRIOR TO 1967.
VCM I BEGAN PRODUCTION IN
1967.

1960, EXCEPT
FOR ONE CASE
THAT OCCURRED IN
A PLANT THAT STARTED UP
IN 1965.

DISTRIBUTION OF ASL CASES

3

BY JOB:*

OPERATOR	75
PVC REACTOR CLEANER	57
MAINTENANCE WORKER	8
OTHER	26
UNKNOWN	22

* DOES NOT TOTAL 138 BECAUSE
SEVERAL PERSONS WORKED MORE
THAN ONE JOB.

⁹¹⁻⁹²
19~~88~~ CASES (AS OF 9/88)

^{12/92}

1991

1992

CANADA

0

1

FRANCE

0

2

U.K.

0

4

ITALY

0

0

U.S.

10

2

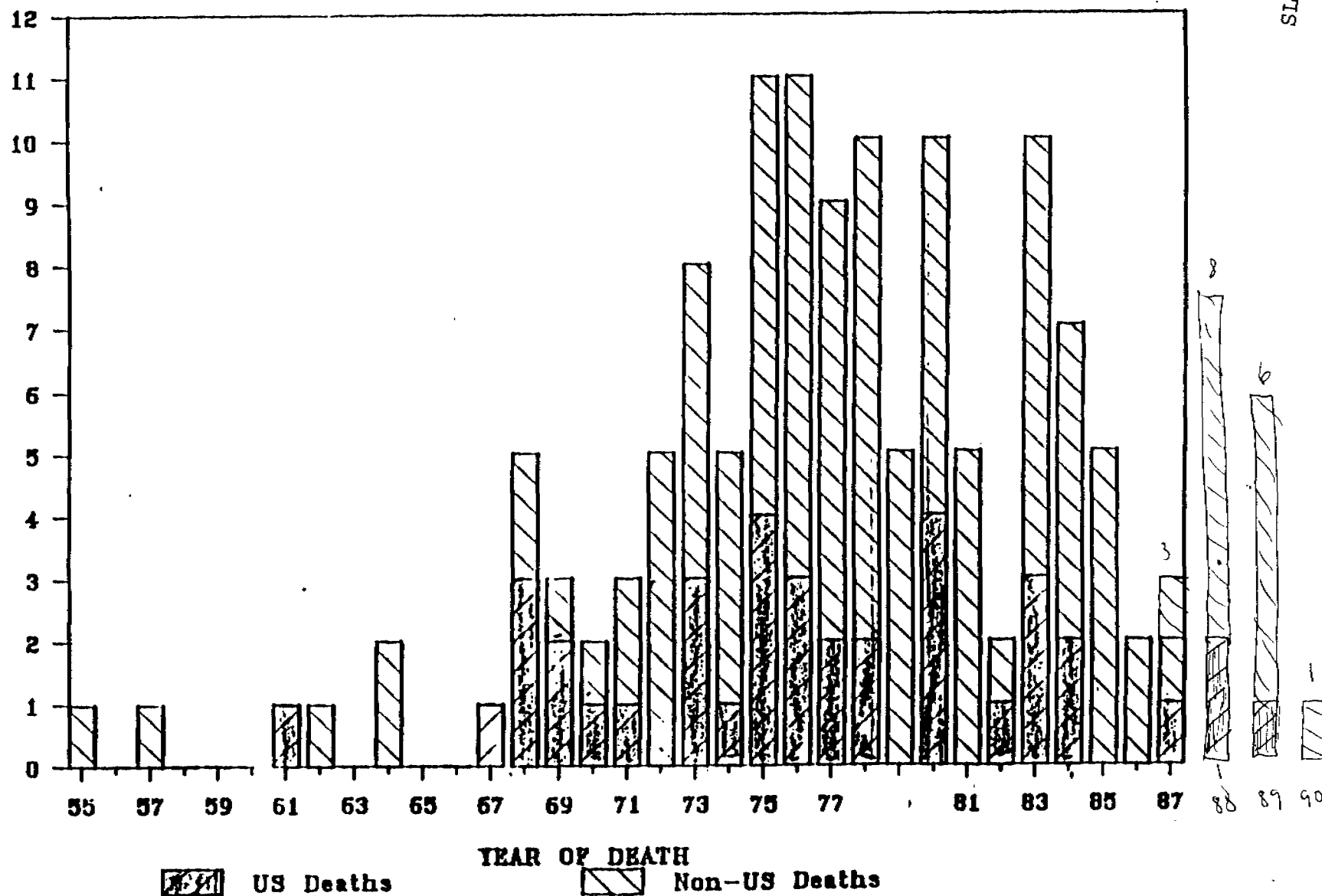
TOTAL

0

4

ANNUAL INCIDENCE OF ASL DEATHS

NUMBER OF DEATHS



SL 089015

TABLE 1

(Review Date - February 1991)

Incidence of ASL Cases Per Annum - By Date of Death

1955	1
6	0
7	1
8	0
9	0
1960	0
1	1
2	1
3	0
4	2
5	0
6	0
7	1
8	5
9	3
1970	2
1	3
2	5
3	8
4	5
5	11
6	11
7	8
8	10
9	5
1980	10
1	5
2	3
3	10
4	8
5	8
6	11
7	3
8	7
9	5
Total	153

NOTES

- 1 Does not include Italian 01.
- 2 The 1977 total now excludes US24, Cholangiosarcoma: deleted.
- 3 The 1982 total now excludes G26 Alcoholic Cirrhosis: deleted.
- 4 Does not include the following who are still alive, so far as known: Fr15 and 28, US33 and 36.

910680 TS

TABLE 2

(Review Date - February 1991)

Distribution of ASL Cases by Country (These are listed in descending order of number of cases.)

USA	39 ** *****
W Germany	38 *****
France	28 **
UK	16
Canada	13
Sweden	5 ***
Italy	8 *
Yugoslavia	4 *****
Japan	3
Czechoslovakia	2
Belgium	2
Norway	1
Spain	1
Australia	<u>1</u>
Total	<u>161</u>

ie	Western Europe	99
	North America	52
	Rest of World	10
	Total	<u>161</u>

* Omit 1t01 - atypical case of PVC bag extruder.

** Includes Fr15 and 28, US33 & 36, who are still alive, so far as known.

*** Includes one monomer worker.

**** Includes two monomer workers.

***** Excludes G26 and US 24: deleted.

SL 089017

(b) N America

Of the 52 cases in N America, 41 have occurred at four factories out of a total of 55 factories. In N America 41 plants have not had ASL cases.

	<u>ASL Cases</u>
BFG, Louisville, US	15
BFG, Shawinigan, Canada	12
UCC, S Charleston, US	9
Goodyear, Niagara Falls, US	<u>5</u>
	<u>41</u>

NB: There are 29 pre 1962 PVC plants in N America; 13 of these have had ASL cases (Ref Tables 9 & 10)

810680 TS

(Review Date - February 1991)

TABLE 4A

Latency Periods (Years from first Exposure to Diagnosis)

	<u>Country</u>	<u>No of Cases</u>	<u>Total Years</u>	<u>Average</u>	
<u>W Europe</u>	Belgium	2	35	17.50	
	France	28	795	28.39 *	
	Germany	38	783	20.61 *	
	Italy	8	172	21.50	
	Norway	1	22	22.00	
	Spain	1	25	25.00	
	Sweden	5	122	24.50	
	UK	<u>16</u>	<u>376</u>	23.50 *	
		<u>96</u>	<u>2267</u>	<u>23.61</u>	W Europe Average
<u>N America</u>	US	39	1002	25.69 *	
	Canada	<u>13</u>	<u>314</u>	24.15 *	
		<u>52</u>	<u>1316</u>	<u>25.30</u>	N America Average
<u>Rest of World</u>	Australia	1	25	25.00	
	Czechoslovakia	2	30	15.00	
	Japan	3	59	19.66	
	Yugoslavia	<u>4</u>	<u>85</u>	21.20	
		<u>10</u>	<u>199</u>	<u>20.00</u>	Rest of World Average
<u>Summary</u>	W Europe	96	2267	23.61	
	N America	52	1316	25.30	
	Rest of World	<u>10</u>	<u>199</u>	20.00	
		<u>161</u>	<u>3845</u>	<u>23.88</u>	* World Average

* Of the countries with > 10 cases, France, USA & Canada have an average latency period above world average; Germany & UK below world average.

ST 089019

(Review Date - February 1991)

TABLE 5

Annual Incidence of ASL Cases (Date of Death) by Geographical Area

	Western Europe	North America	Rest of World	Annual Total	Cumulative Total	Key Events
1955		1		1	1	
7		1		1	2	
1961		1		1	3	
2		1		1	4	
4		1	1	2	6	
7	1			1	7	
8		5		5	12	
9	1	2		3	15	
1970	1	1		2	17	Viola
1	1	2		3	20	
2	4	1		5	25	
3	1	4	3	8	33	Maltoni
4	3	2		5	38	Goodrich
5	6	4	1	11	49	
6	6	3	2	11	60	
7	6	2		8	68	
8	7	2	1	10	78	
9	5			5	83	
1980	6	4		10	93	
1	5			5	98	
2		3		3	101	
3	7	3		10	111	
4	6	2		8	119	
5	7		1	8	127	
6	10	1		11	138	
7		3		3	141	
8	8			7	148	
9	6	1		5	153	
1990			1	1	154	
TOTAL	97* **	50**	10	154		

* Omits it 01 bag extruder

** Does not include the following who are still alive, so far as known: Fr15 and 28, US33 & 36

NOTE: G26 and US24 deleted.

SL 089020

(Review date February 1991)

TABLE 7

ASL CASE NUMBERS BY YEAR OF FIRST EXPOSURE AND GEOGRAPHICAL LOCATION
(EXCLUDING It.01)

KEY EVENTS		WESTERN EUROPE	NORTH AMERICA	REST OF WORLD
	1939			
	40			
	1	Fr11, Fr16	C3, US27	
	2	Fr28**	US13, US29, US40	
	3	Fr14, Fr24	C2, US19, C11	
	4	UK1, Fr23	C1, C5, US5, US7, US28, US35	
	5	Sw2	C4, US3, US9, C12	
	6	Fr1, Fr3, Sw4	C7, C9, US8, US11, US21, US31	
	7	Sw3	C6, US22, US26	
	8	Fr9, Fr17	US1	
	9	Fr12, Fr4	US12, US41	
	50	Fr7, N1, UK8, UK9	US16	Y2, Cz2
	1	Sw1, UK5, Fr20, G30	US10, US32	
	2	G3	US4	
	3	G15, It3, G31, G33, G36	C10, US37	Jap1, Y1
	4	G7, G8, G19, G38, Fr27, UK4	US18, US33**	Y3
	5	G11, G16, G18, Fr15**	US2, US17, US20, US34, US43	
		G23, G28, G32		
	6	FR10, G1, G34, UK15	US36**	
	7	Fr8, G4, It2, G2, UK12	C13	Cz1
	8	Fr6, B1, Fr22, It7	US23	Jap2, Y4
	9	Fr2, It4, Fr19, Fr21		
	60	G5, G13, G25, G28, It6	US39	
	1	G9, G10, G12, G17, G20, G22	C8	
		It.08,		
	2	G6, UK6, G21, B2, G29, Fr25	US6	
	3	Fr13, UK7, Fr18, UK16,	US38	
		UK17, Fr26		
	4	Sw5, Sp1	US30	
	5	Fr5, UK11		Jap3 Aus 01
	6	UK3, UK10, UK14		
	7	It5		
	8	UK13, G35, G39	US42	
	9	G24, G37		
Viola	70			
	1			
	2	It 09		
Maltoni	3			
Total	99		52	10

* Aerosol can filler (G3)

** Fr15, Fr28, US33 & 36 are still alive, so far as known

(Review date February 1991)

TABLE 9

USA PVC PRODUCERS - START-UP DATES vs ASL CASES

START-UP YEAR	COMPANY NAME	LOCATION	ASL CASE NUMBER	YEAR OF 1st EXPOSURE
1939?	*UCC	S Charleston	07,13,19,21,27 28,29,31,35	44,42,43,45,41 44,42,46,44
	Dow	Midland (made Saran copolymer)		
1940?	*BFG	Louisville	01,02,03,04,05, 06,09,16,17,22, 26,33,34,37,40	48,55,45,52,44, 62,45,50,55,47, 47,54,55,53,42
1946	*UCC/Dow	Texas City (Partially closed 1977)		
1947	Goodyear	Niagara Falls	08,10,11,20,41	46,51,46,55,49
1948	Firestone/ Occidental	Pottstown	12	49
	Uniroyal	Painesville (closed 1975)		
1950	Monsanto	Springfield (Closed 1975)	32	51
1952	Dow	Midland (No PVC since c 1975)		
	BFG	Avon Lake	18	54
1953	Diamond/BFG	Deer Park		
1954	General Tire/ ** DiversiTech	Ashtabula (Closed 1983, Reopened 1986 by Vygen)	36,43	56,55
1956	Air Products	Pensacola (Pace)		
	Atlantic Refining	Brooklyn (Closed late 1960s)		
	Borden	Leominster (Closed 1984)		
	Conoco	Hebronville (Closed 1975)		
	BFG	Niagara		
	Great American Plastics	Fitchburg (Closed 1983)	23	58
	Hooker	Hicksville (Closed 1980-81)		
	Pantasote	Passaic (Closed 1984)	39	60
1957	Atlantic Tubing	Cranston (Closed 1967)		
	Tenneco/ Occidental	Flemington NJ (Closed 1985)	30	59
1958	Keysor Century	Saugus, Cal		
	Air Products	Calvert City (Paducah) (Closed March 1982 Re-opened October 1983)	38	63

Continued

TABLE 9 (Continued)

USA PVC PRODUCERS - START-UP DATES vs ASL CASES

START-UP YEAR	COMPANY NAME	LOCATION	ASL CASE NUMBER	YEAR OF 1st EXPOSURE
1960	BFG	Long Beach, Cal (No PVC now. Formerly shown as Watson)		
	Borden	Illiopolis		
1962	Tenneco/Occidental	Burlington NJ		
1963	Conoco/Vista	Aberdeen, Miss		
	Stauffer	Long Beach, Cal (Closed 1982)		
1965	Conoco/Olin	Assonet, Mass	42	68
		(Closed by Olin 1975)		
	Ethyl	Baton Rouge (Closed 1984)		
1966	Diamond/Georgia	Delaware City		
	Gulf			
	Gen Tire/Pantasote	Mt Pleasant W Va	(Closed 1982)	
	BFG	Henry, Ill		
	Stauffer/Formosa	Delaware City (Sold to Formosa 1981)		
1967	Allied/Robintech/	Painesville, O. (No PVC made by Robintech.		
	Georgia Pacific	GP converted to polystyrene)		
	Hooker/Occidental	Burlington NJ		
1968	Firestone/Occidental	Perryville (Closed 1982)		
1969	BFG	Pedricktown NJ		
	Goodyear/BFG	Plaquemine		
1971	Conoco/Vista	Oklahoma City		
1972	Nat Starch	Meredosia, Ill		
1973	Borden	Springfield		
1974	Atlantic Tubing/	Cranston RI (Closed 1982)		
	Tallyrand			
	Shintech	Freeport, Tex		
1975	Certain-teed	Lake Charles		
	Georgia Pacific/	Plaquemine, La		
	Georgia Gulf			
	Tenneco/Occidental	Pasadena, Tex		
1979	Firestone/	Addis (formerly shown as		
	Occidental	Plaquemine)		
1983	Formosa	Point Comfort, Tex		
1986	Vygen	Ashtabula, Ohio		

* My databank has no information on UCC before 1946 or BFG before 1950NB

** Refer to same plant at Ashtabula, bought by Vygen from DiversiTech.

Some of the plants in this list were closed down, some have changed ownership over the years, some have changed their product.

USA
Sheet 1

LIVER Angiosarcoma Cases - (Review Date February 1991)

UK system of dates
DAY - MONTH - YEAR

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COUNTRY AND REFERENCE NO	NAME OR INITIALS	DATE OF BIRTH	COMPANY	FACTORY	FIRST VC EXPOSURE	DATE OF DIAGNOSIS	AGE AT DIAGNOSIS	YEARS OF EXPOSURE TO DIAGNOSIS	YEARS OF EXPOSURE	DATE OF DEATH	HISTOLOGICAL CONFIRMATION	ESTIMATED EXPOSURE LEVEL	OCCUPATION	OTHER CAREER HIGHLIGHTS	OTHER COMMENTS
01	Earl Parks	17.10.23	BFG	Louis- ville	09.12.48	03.03.73	49	24	21	03.03.73	Yes		Pot Cleaner (Block Jama 1974) p 53	History given in Annals NY ACAD SCIENCES Vol 329 (1979) page 190 in Paper by B R Cottine of OSHA	Rolling Stone Art Ref 1 NY Acad of Sc Symp 1974 Also Block Jama 1.7.74 p 53
02		19.08.33	BFG	Louis- ville	15.11.55	00.05.70	37	14	13	27.09.71 (NIOSH says 28.09.71)	Yes		Pot Cleaner (Cf Block)		Ref 1 Also Block JAMA 1.7.74 p 53
03	Edward Dinwiddie	25.05.15	BFG	Louis- ville	28.11.45	19.12.73	58	28	28	19.12.73	Yes		Pot Cleaner (Cf Block)	Louisville Courier Journal 02-09-80	Ref 1 Also Block
04		15.01.24	BFG	Louis- ville	06.07.52	19.08.67	43	15	15	07.01.68	Yes		Pot Cleaner (Cf Block)		Ref 1 Also Block
05		25.01.12	BFG	Louis- ville	19.06.44	09.04.64	52	20	20	09.04.64	Yes		Pot Cleaner (Cf Block)		Ref 1 Also Block
06	Ray Austin Jones?	23.11.28	BFG	Louis- ville	17.01.62	00.02.74	45	12	12	24.07.75	Yes		US Air Force Pot Cleaner (Cf Block)		Ref 1 + Louisville Times 23.7.75 Retired April 1974 Also Block
07	Charles T Smart	03.05.22	UCC	S Charle- ston	27.08.44	00.00.68	45	24	17	23.03.68	Yes				Ref 1
08		06.05.20	Goodyear	Niagara	07.10.46	00.08.61	41	15	15	29.08.61	Yes				Ref 1

SL 089024

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COUNTRY AND REFERENCE NO	NAME OR INITIALS	DATE OF BIRTH	COMPANY	FACTORY	FIRST VC EXPOSURE	DATE OF DIAGNOSIS	AGE AT DIAGNOSIS	YEARS OF EXPOSURE TO DIAGNOSIS	YEARS OF EXPOSURE	DATE OF DEATH	HISTOLOGICAL CONFIRMATION	ESTIMATED EXPOSURE LEVEL	OCCUPATION	OTHER CAREER HIGHLIGHTS	OTHER COMMENTS
09	Raymond Gettle- finger?	08.11.31	BFG	Louis- ville	28.05.45	01.03.74	43	29	24	11.03.75	Yes	2000 ppm			Ref 1 has wrong figures re first exposure. Louisville Times 29.10.74, 12.3.75, 10.3.76
10		16.08.13	Goodyear	Niagara	12.06.51	00.05.68	55	17	17	10.05.68	Yes				Ref 1
11		27.05.09	Goodyear	Niagara	14.10.46	00.03.70	61	23	23	16.03.70	Yes				Ref 1
12	Francis A Bachman	17.11.18	Firestone	Pottstown Pa	13.07.49	02.05.69	50	20	19	02.05.69	Yes	High 10 yrs	10 yrs as reactor op. (not cleaner - separate crew cleaned autoclaves)	Utility & Service op. Bagger Dryer op. Stripping op. 3 yrs prior service in tyre plant	Ref 1 + letter of 26 April 1978 from Russell A Park to J I Seawell of MCA
13	Richard Edward Clendenin	01.12.21	UCC	S Charle- ston	11.12.42	00.05.74	52	32	26	07.04.74	Yes	2000 ppm			Charleston Daily Mail 21.7.75
(14)															Never diag- nosed as ang- iosarcoma of liver. Inform- ation given in letter 22 May 1984 from J A Selg.
(15)															Accountant; ASL - No evi- dence of VCM exposure.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COUNTRY AND REFERENCE NO	NAME OR INITIALS	DATE OF BIRTH	COMPANY	FACTORY	FIRST VC EXPOSURE	DATE OF DIAGNOSIS	AGE AT DIAGNOSIS	YEARS OF EXPOSURE TO DIAGNOSIS	YEARS OF EXPOSURE	DATE OF DEATH	HISTOLOGICAL CONFIRMATION	ESTIMATED EXPOSURE LEVEL	OCCUPATION	OTHER CAREER HIGHLIGHTS	OTHER COMMENTS
16	James Howard	04.11.27	BFG	Louis- ville	08.05.50	00.00.69	41	19	04	27.03.69	Yes		1951-4 VCM polymer- isation	From 1954 onwards in Army and other service. 46-50 Army	Table 4 in Wagoner testimony to US Senate Confirmed in M N Johnson ltr 07.08.78
17	Peerenboom	06.05.31	BFG	Louis- ville	23.06.55	11.10.74	43	19	19	16.10.80	Yes on 11.10.74 but no post-mortem 16.10.80				Dr M N Johnson letter of 24.2.81 con- firmed death 6 years after diagnosis
18	Charlie Arthur	22.04.28	BFG	Avon Lake	15.09.54	00.00.75	46	21	13	02.11.75	Yes	13 yrs autocleaner 8 yrs on Estol plasticiser & Carboset operation	Navy Tyre Store		Confirmed in M N Johnson ltr 07.08.78 Also Rolling Stone mag. 15.01.76
19	Virgil Christian	00.00.15	UCC	S Charle- ston	00.00.43	19.06.75	60	32	32	06.04.76	Yes	2000 ppm			Williamsport Sun Gazette 21 June 1975 Charleston Daily Mail 21.7.75
20		31.08.17	Goodyear	Niagara	00.00.55	30.01.76	58	21	18	30.01.76	Yes				NOISH letter of 25.10.79
21	Chester Hinkle	02.09.09	UCC	S Charle- ston	00.12.46	Early 77	67	30	22	02.01.77	Yes				28 yrs with UCC at SC Retired News release 23.2.77

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COUNTRY AND REFERENCE NO	NAME OR INITIALS	DATE OF BIRTH	COMPANY	FACTORY	FIRST VC EXPOSURE	DATE OF DIAGNOSIS	AGE AT DIAGNOSIS	YEARS OF EXPOSURE TO DIAGNOSIS	YEARS OF EXPOSURE	DATE OF DEATH	HISTOLOGICAL CONFIRMATION	ESTIMATED EXPOSURE LEVEL	OCCUPATION	OTHER CAREER HIGHLIGHTS	OTHER COMMENTS
22		02.10.23	BFG	Louis- ville	11.07.47	00.01.76	52	29	28	04.12.76	Yes				Louisville Times 26.1.76 said he was the 10th AS victim at Bells Lane of whom 8 had died by 26.1.76 In his letter of 16.09.81 Dr M M Johnson confirms this is the case described by Dannaher Tamburro & Yam in Feb 1980 Am J Medicine Vol 70 p280
23		00.00.23	Great American Chemical Company	Fitchburg Mass	08.09.58	06.04.73	50	15	14	06.04.73	Yes				
(24)		Deleted 1990 by B Bennett: Not angiosarcoma, but confirmed Cholangiosarcoma													
(25)		Removal from register confirmed in R Kaminski letter of 5 November 1980													
															R N Wheeler letter of 20/2/79 and Rose Kaminski letters of 26/2/79 and 5/11/80

SL 089027

USA - Sheet 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COUNTRY AND REFERENCE NO	NAME OR INITIALS	DATE OF BIRTH	COMPANY	FACTORY	FIRST VC EXPOSURE	DATE OF DIAGNOSIS	AGE AT DIAGNOSIS	YEARS OF EXPOSURE TO DIAGNOSIS	YEARS OF EXPOSURE	DATE OF DEATH	HISTOLOGICAL CONFIRMATION	ESTIMATED EXPOSURE LEVEL	OCCUPATION	OTHER CAREER HIGHLIGHTS	OTHER COMMENTS
26	John Berry	07.07.23	BFG	Louis- ville	03.10.47	00.00.77 (up to 2 years after death)	52 (death)	28 (death)	18	11.02.75	Yes	Exposed in some degree to 22 chemicals but main exposure was to VCM, probably high	Various jobs in PVC plants from cold room to paste recovery to PVC charging operator to paste charging. 111 August 1965. Terminated employment Jan 1966		R Kaminski letter of 26/2/79 and Prof. Tamburro letter of 9/1/79
27	J L Forrest	11.05.16	UCC	S Charle- ston	01.07.41	30.11.78	62	37	20 (NIOSH says 27 and C Daily Mail 25)	25.11.78	Yes	High	Operator to 10.10.76	Exposure in bulk and dispersion PVC manufacture	R W Wheeler ltr of 4 Jan 1979 and Charleston Daily Mail 30.11.78 and R Kaminski 26/2/79
28		11.04.17	UCC	S Charle- ston	00.08.44	03.11.78	61	34	33	03.11.78	Yes				R Kaminski letter of 6/4/79
29		12.10.07	UCC	S Charle- ston	00.05.42	00.03.80	72	38	16	01.03.80	Yes				R Kaminski Letters of 19th June 1980 & 5th Nov 1980
30	VVM	22.07.22	Tenneco Chemicals	Flemington	11.06.64	30.12.80	58	17	15	30.12.80	Yes	6 - Unknown 9 - Minimal	Maintenance Mechanic 6 yrs Elsewhere 1 1/2 yrs Boiler house Operator 9 yrs		

LIVER Angiosarcoma Cases - (Review Date: February 1991)
UK System of dates Day - Month - Year

USA Sheet 6

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COUNTRY AND REFERENCE NO	NAME OR INITIALS	DATE OF BIRTH	COMPANY	FACTORY	FIRST VC EXPOSURE	DATE OF DIAGNOSIS	AGE AT DIAGNOSIS	YEARS OF EXPOSURE TO DIAGNOSIS	YEARS OF EXPOSURE	DATE OF DEATH	HISTOLOGICAL CONFIRMATION	ESTIMATED EXPOSURE LEVEL	OCCUPATION	OTHER CAREER HIGHLIGHTS	OTHER COMMENTS
31		08.11.23	UCC	S Charle- ston	12.05.46	01.08.81	57	35	13	02.04.82	Yes	High (But not as high as reactor cleaner would experience) Worked as labourer from June 1941 to May 1946 and may have cleaned reactors in that time	Chemical Operator in charge reactor	From 1959 to 1976 Aliphatic Chemicals operator and from July 1976 to date Foreman Aliphatic Chemical Operation	Dr Dacey letter 16.10.81 and R W Wheeler letter of 9.11.81. Also Dr Dacey letter of 07.03.83 re date of death.
32	C M Giroux	22-02-08	Monsanto	Springfield Mass	15-10-51	00-07-79	71	28	14 (in PVC autoclave area)	17-05-80	An autopsy was done and immediate cause of death given as "Angiosarcoma"	The death certificate gave Mr Giroux' usual occupation as "kettle operator" in "chemicals industry".	1940-1951 Various jobs in polymer manufacture BUTVAR LUSTREX 1951-1964 Various jobs in and around PVC autoclaves 1964-1973 Various clerical jobs in PVC polymerisation facility/ Retired 01-03-73.		Information given in letter of 24 February 1982 from Dr Walter C Barnes of Monsanto Springfield to Dr A Munn of Monsanto Europe.
33	S Ferguson Jnr	08-10-27	BFG	Louisville	09-09-54	11-05-82	54	28	28	Alive	Yes	1954-74 High 1975-82 Low	Multiple jobs including Poly Operator + Polycleaner.		Prof Tamburro letter of 12 Aug 1982 + Dr H W Johnson letter of 28 Feb 1983.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COUNTRY AND REFERENCE NO	NAME OR INITIALS	DATE OF BIRTH	COMPANY	FACTORY	FIRST VC EXPOSURE	DATE OF DIAGNOSIS	AGE AT DIAGNOSIS	YEARS OF EXPOSURE TO DIAGNOSIS	YEARS OF EXPOSURE	DATE OF DEATH	HISTO- LOGICAL CONFIRM- ATION	ESTIMATED EXPOSURE LEVEL	OCCUPATION	OTHER CAREER HIGHLIGHTS	OTHER COMMENTS
34	Mr Byrum	29-01-34	BFG	Louisville	1955	03-11-82	48	27	10	04.08.83	Yes	1955-74 High 1975-82 Low	Poly Operator + Autoclave Cleaner 1955-65	1965 left BFG to become a Clergyman.	Dr M W Johnson letter of 3 Nov 1982, 28 Feb 1983 and 9 August 1984.
35		09-03-12	UCC	S Charles- ton	23-07-44	18-07-83	71	39	14	18-07-83	Yes	High from 1944 to 1955. Med from 1955-1958			Dr Dacey letter of 5 September 1983.
36	W.G. Price	27-08-32	The General Tire and Rubber Co	Ashtabula	11-06-56	21-08-83	50	27	27	Alive	Yes	Moderate	1956-56 labourer 1956-57 prod helper 1957-70 operator 1970-75 electrician 1975-83 operator		R W Laundrie letter of 12 Sept 1983; spotted at medical May 1983. Testing commenced May 1983 Roy W. Johnson letters Feb & March 1990
37	J Payton	29.08.29	BFG	Louis- ville	1953	06.08.84	54	31	22	06.08.84	Yes	High	Worked regularly in PVC area. In the early days was a reactor cleaner 1953-75.		Information given in letter 09.08.84 from Dr M W Johnson
38	JWB	28.08.22	Air Products	Calvert City	00.02.63	19.01.84	61	20	20	28.10.83	Yes	High 1963-1982	Normal progression from helper to senior operator, cleaned reactors, stripping & recovery areas as well as charging operator.		Thrombo cytopenia and leukopenia since 1978. Gold treatment for arthritis 1976. Under Dr.'s care about 6 months before death, had passed standard physical examination 3 months earlier. J. Barr letters of 22.10.84 and 23.01.85.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COUNTRY AND REFERENCE NO	NAME OR INITIALS	DATE OF BIRTH	COMPANY	FACTORY	FIRST VC EXPOSURE	DATE OF DIAGNOSIS	AGE AT DIAGNOSIS	YEARS OF EXPOSURE TO DIAGNOSIS	YEARS OF EXPOSURE	DATE OF DEATH	HISTO- LOGICAL CONFIRM- ATION	ESTIMATED EXPOSURE LEVEL	OCCUPATION	OTHER CAREER HIGHLIGHTS	OTHER COMMENTS
42	McMullen	02.05.41	Olin	Assonet	00.04.68	00.04.82	41	14	6	09.07.82	Yes	High	Labourer in Pot area: pot cleanout regularly		Letter from Dr Peter Hamill 13.04.89
43	J R Succi	08.09.21	GenCorp (formerly General Tire)	Ashtabula Ohio	14.04.55	26.11.88	67	33	28	10.01.89	Yes	High Medium Low	PVC Resin Plant: Maintenance Cleaner 1.6 years Shift Mechanic 2 years Plant Electrician 24.10 years	Retired 01.01.84	Letters from Roy W Johnson, GenCorp 08.05.89 and 30.05.89

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