



DOW CHEMICAL U.S.A.

1803 Building
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MIDLAND, MICHIGAN 48640

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ANGIOSARCOMA REGISTRY

Dr. Brian Bennett of ICI has revised the angiosarcoma registry as of 14 January 1985. See copy enclosed. There appear to be no major surprises. It will be interesting to see if the apparent reduction in numbers since 1981 continues in future years.

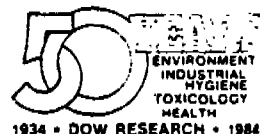
Sincerely yours,

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cc: Dr. Bennett, ICI

Enc.

R&S 103074



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KNOWLEDGEMENTS, SIGNIFICANT CHANGES AND COMMENTS

The new cases in the Register are the following :

Belgium	02
UK	10
USA	37
USA	38

It should be noted that there are corrections from the previous Register against the following cases :

France	16
UK	07
USA	14, 15, 34, 35

I would like to thank John Barr for the Plant corrections that are in that Section.

I would like to thank Dr. De Sloover, Dr. D. M. J. Williams and Dr. M. N. Johnson, together with Mr. John Barr for informing me of new cases.

For the case corrections, I would like to thank Dr. J. C. Contassot, Dr. D. M. J. Williams and Dr. M. N. Johnson.

I would especially like to thank Dr. Joyce A Salg for the great deal of effort which she put into clarifying USA 14 and 15, which had previously been documented as dubious fabrication cases.

I should be very grateful if all the recipients of the Register could continue to keep me totally informed of any new cases or, if they should hear of other Companies who have acquired a case of ASL, it would be much appreciated if I could be informed by the appropriate person.

With reference to the Register format, I will be continually trying to improve it.

CHNETT

Jan 1985

IMPERIAL CHEMICAL INDUSTRIES PLC
PETROCHEMICALS AND PLASTICS DIVISION

Canada
Sheet 1

2

LIVER Angiosarcoma Cases - (Review Date: 1 Jan 1985)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Y AND ENCE	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		15.12.13	SHAMHIGAN		1944	1955	41	11	11	02.09.55	Yes		Reactor cleaner	Operator polymerisation	Smoker
02		06.01.14			1943	1957	43	14	14	21.12.57	Yes		Maintenance, millwright, pipfitter	Operator	Worked overtime Smoker
03		26.08.19			1941	1962	42	21	20	23.03.62	Yes		Operator, foreman		Worked overtime Non-smoker
04		05.04.19			1945	1967	48	22	22	21.01.68	Yes		Reactor cleaner	Operator, furnace, water cooling unit	Worked overtime Smoker
05		07.05.11			1944	1968	53	24	05	05.07.68	Yes		Reactor cleaner	Water cooling unit	Worked overtime Smoker
06		15.12.19			1947	1971	51	24	23	10.04.71	Yes		Reactor cleaner	Maintenance, millwright	Worked overtime Smoker
07		09.11.19			1946	1972	53	26	25	24.12.72	Yes		Reactor cleaner	Machine shop operator and poly unit	Worked overtime Smoker
08		13.05.20			1961	1973	53	12	05	12.06.73	Yes		Reactor cleaner	Maintenance machine shop	In plant 25 yrs Smoker
09		19.07.21			1946	1974	53	28	26	04.09.74	Yes		Furnace op. pipfitter maintenance		Worked overtime Smoker

not by Dr & DELORME in Annales d'Anatomie pathologique Paris, 1978 Vol 23 No 2 pp105-114 claims this case had both a hepatoma and ASL simultaneously.

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TABLE 1

Incidence of ASL Cases Per AnnumBy 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	1
7	1
8	5
9	3
1970	2
1	3
2	5
3	7
4	6
5	11
6	11
7	9
8	10
9	5
1980	10
1	4
2	1
3	7
4	3
Total	<u>109</u>

N.B. 1 Does not include Italian 01 but does include German 03.

2 The 1977 total includes US case 24 which is a Cholangiosarcoma.

3 The 1982 total does not include US 33 who is alive and F 15 who is alive.

4 The 1983 total does not include US 36 who is alive.

TABLE

Distribution of ASL Cases by Country

USA	35 ***
W Germany	21 **
France	17 ***
Canada	10
UK	9
Sweden	5 *****
Yugoslavia	4 *****
Italy	4 *
Czechoslovakia	2
Japan	2
Belgium	2
Norway	1
Total	112

* Omit It01 - atypical case of PVC bag extruder.

** Includes GE03 aerosol can filler.

*** Includes case US 24 which was diagnosed as Cholangiosarcoma; & US 33, and 36; and F 15, who are alive.

**** Includes one monomer worker.

***** Includes two monomer workers.

l.e Western Europe	59
North America	45
Rest of World	8
Total	112

TABLE 3

Pattern of ASL Cases by Factorya) W Europe

Of the 59 cases in W Europe, 49 have occurred in clusters at 11 factories. Of the 21 German cases, 18 have occurred in clusters at 4 factories.

	<u>ASL Cases</u>
Dynamit, Troisdorf	10
Chloe Chimie (Formerly RP), St Fons	8
BP, Barry	7
Kemanord, Sundsvall	5
PCUK, Brignoud	5
Wacker, Burghausen	4
CWH, Marl	2
ICI, Hillhouse	2
Solvay, Tavaux	2
Lonza, Waldshut	2
Solvay, Jemeppe	2
	<u>49</u>

B: There are 31 pre 1962 PVC plants in W Europe; 18 of these have had ASL cases (Ref Table 8)

b) N America

Of the 45 cases in N America, 38 have occurred at four factories out of a total of 49 factories - in N America 38 plants have not had ASL cases.

	<u>ASL Cases</u>
BFG, Shawinigan	10
BFG, Louisville	14
UCC, S Charleston	10
Goodyear, Niagara	4
	<u>38</u>

B: There are 29 pre 1962 PVC plants in N America; 11 of these have had ASL cases (Ref Tables 9 & 10)

c) Rest of World

The 8 ASL cases are believed to be in 1 cluster of 4 and 2 clusters of 2 cases.