

TABLE 19 Western Europe PVC/VCM PRODUCERS 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1931	DE	BASF	1	Ludwigshafen	41	55	
1933	DE	WACKER	8	Burghausen	4 7 11 15 23 24 25 31 32 33 42 43	57 54 55 53 55 69 60 53 55 53 55 50	
1935	DE	TREUHAND	9	Schkopau			
1938	IT	MONTECATINI (closed)	6	Acna			
1939	FR	RHONE-POULENC/ELF-ATOCHER	3	St Fons	3 9 10 11 14 15 16 17 23 27 28	46 48 56 41 43 55 41 48 44 54 42	
1940	GB	ICI/EVC	1	Hillhouse	1 4 12 16 17	44 54 57 63 63	
1940	GB	ICI/EVC (closed 1948 - restarted 1970)	4	Runcorn			
1945	SE	KEMANORD	1	Sundsval	1 2 3 4 5	51 45 47 46 64	1988
1946	FR	RHONE-POULENC	1	Roussillon	1	46	1987
1948	GB	BP/EVC	2	Barry	3 5 6 7 8 9 10 11 13 14 15 18 19 20 21	66 51 62 63 50 50 66 65 68 66 56 59 57 57 65	
1948	DE	C&H/HÜLS	2	Marl	9 10 29	61 61 62	

TABLE 19 Western Europe PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1949	BE	SOLVAY	1	Jenepe	1 2	58 62	
1950	FR	PEUK/ELF-ATOCHM	2	Brignoud	2 4 5 6 12 19 20 24	59 49 65 58 49 59 51 43	
1950	FR	RHONE-POULENC/ELF-ATOCHM	4	St Auban	7 22	50 58	
1950	NL	SHELL/ROVIN	1	Pernis			
1950	NO	NORSK	1	Heroya	1	50	
1951	DE	DYNAMIT/HOLS	4	Troisdorf	1 2 8 12 16 17 19 20 21 22 27 30 34 35 36 37 38 39 40	56 57 54 61 55 61 54 61 62 61 55 51 56 68 53 69 54 68 68	1975
1951	CH	LONZA/EVC	1	Sins			
1952	IT	MONTEDISON/EVC	1	Porto Marghera	2 6	57 60	
1952	IT	MOPLEFAN (closed)	5	Terni	7	58	
1953	FR	SOLVAY	5	Tavaux	8 13 18 25 26	57 63 63 62 63	
1953	IT	SOLVAY	2	Ferrara	3	53	

TABLE 19 Western Europe PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1953	DE	HOECHST	5	Gendorf	18	55	
1953	ES	RIO RODANO/ELF-ATOCHEN	2	Hernani			
1953	GB	NORSK	3	Aycliffe			
1953	AT	HALVIC/SOLVAY	1	Hallein			
1955	DE	DYNAMIT/HÜLS	12	Rheinfelden	3	52	
1955	ES	MONSANTO IBERIA/AISCONDEL	3	Monzon			
1955	DE	STATE COMPANY	13	Bitterfeldt			
1955	DE	HOECHST	14	Frankfurt	5	60	1968
1955	ES	HISPAVIC/SOLVAY	1	Torrelabelga	1	64	1983
1958	DE	SOLVAY	6	Rheinberg			
1960	IT	ANIC/EVC	3	Ravenna	4 8 9	59 61 72	

TABLE 19 Western Europe PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1960	DE	LONZA/ICI/EVC	7	Waldshut	6 13 28	62 60 60	1990
1960	SE	KEMANO/NORSK	2	Stenungsund			
1961	PT	CIRES	1	Estarreja			
1963	IT	EVC	10	Brindisi			
1965	FR	RHONE-POULENC closed	6	Montluçon	21	59	
1965	IT	PANSAC	4	Mira-Venice	5	67	
1965	IT	POZZI	7	Ferrandina			
1965	DE	WACKER	15	Köln			
1966	DE	HOECHST	11	Knapsack			
1967	FR	ATOCHÉ/ELF-ATOCHÉ	7	Balan			
1967	ES	RIO RODANO/ELF-ATOCHÉ	4	Miranda De Ebro			

TABLE 19 Western Europe PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1967	GR	ESSO PAPPAS/EKO	1	Thessaloniki			
1968	BE	BAI/PHIL/BASF	2	Antwerp			
1969	IT	RUMANICA/EVC	8	Cagliari			
1969	IT	SIR/EVC	9	Porto Torres			
1969	GB	NORSK	6	Staveley			1986
1970	NL	ROVIN	3	Botlek			
1971	ES	HISPAVIC/SOLVAY	5	Martorell I			
1971	GB	BP	5	Baglan Bay			1982
1972	FI	PEKEMA/NESTE	1	Svartbach/Kulloo			
1972	NL	DSM/LVM	2	Beek Geleen			
1972	ES	VINICLOR/SOLVAY	7	Martorell II			

TABLE 19 Western Europe PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	Close-up year
1972	BE	LVM	3	Tessenderlo			
1976	FR	CDF/LVM	8	Mazingarbe			
1976	ES	MONSANTO IBERIA/AISCONDEL	6	Tarragona			
1978	NO	NORSK	2	Rafnes			
1980	DE	ICI/EVC	3	Wilhelmshaven			
1981	FR	ELF-ATOCEM/VINYLFOS	12	Fos-sur-Mer			
1981	FR	SHELL	9	Berre			
1983	FR	ELF-ATOCEM	10	Lavera			

TABLE 20 Eastern Europe PVC/VCM PRODUCERS 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1941	SU	STATE COMPANY	1	Vladimir			
1950	CT	JUGO VINIL	1	Split	1 2 3 4	53 50 54 58	
1951	SK	STATE COMPANY	1	Novaky	1 2	57 50	
1956	RO	STATE COMPANY	1	Icechim			
1957	RO	STATE COMPANY	2	Tirnaveni Turda			
1957	PL	STATE COMPANY	1	Oswiecim Dwory			
1958	RO	STATE COMPANY	3	Risnov			
1959	HU	STATE COMPANY	1	Borsodchem			
1961	RO	STATE COMPANY	4	Borzesti			
1963	CT	OHIS	3	Skopje			
1965	BG	STATE COMPANY	1	Varna			

TABLE 20 Eastern Europe PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1967	PL	STATE COMPANY	2	Tarnow			
1969	SU	STATE COMPANY	2	Dzerzhinsk			
1970	SU	STATE COMPANY	3	Volgograd			
1970	RO	STATE COMPANY	5	Rimnicu Vilcea			
1972	CT	VINILPLASTIKA	2	Zadar			
1975	CS	STATE COMPANY	2	Neratovice			
1975	SU	STATE COMPANY	4	Kalush Area			
1976	CT	HIP	4	Pancevo			
1977	RO	STATE COMPANY	6	Rimnicu Vilcea 2			

TABLE 21 North America PVC/VCM PRODUCERS 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1939	US	UNION CARBIDE	2	S Charleston (2)	7 13 19 21 27 28 29 31 35 45 46 47	44 42 43 46 41 44 42 46 44 - 41 58	1979
1942	US	BF GOODRICH	1	Louisville (1)	1 2 3 4 5 6 9 16 17 22 26 33 34 37 40 48	48 55 45 52 44 62 45 50 55 47 47 54 55 53 42 54	
1943	CA	CANADIAN RESINS/SHAWINIGAN/GULF/GOODRICH	1	Shawinigan (1)	1 2 3 4 5 6 7 8 9 10 11 12	44 43 41 45 44 47 46 61 46 53 43 45	1993
1946	US	UNION CARBIDE	14	Texas City			
1947	US	GOODYEAR	3	Niagara Falls (3)	8 10 11 20 41 44	46 51 46 55 49 55	
1948	US	FIREFSTONE/OCCIDENTAL	4	Pottstown	12	49	
1948	US	UNIROYAL	15	Patnesville			1975
1948	US	DOM	22	Freeport			1982
1950	US	MONSANTO	8	Springfield	32	51	1975
1951	US	BF GOODRICH	5	Avon Lake	18	54	
1951	CA	MONSANTO	3	La Salle			1975

TABLE 21 North America PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1952	US	DOW	16	Midland			1975
1953	US	DIAMOND SHAWROCK/BF GOODRICH	13	Deer Park			
1953	US	BF GOODRICH	57	Calvert City			
1954	US	GEN. TIRE/DIVERSITECH(c1.83)/VYGEN(op.86)	9	Ashtabula	36 43	56 55	
1956	US	GREAT AMERICAN PLASTICS	6	Fitchburg	23	58	1983
1956	US	PANTASOTE	11	Passaic	39	60	1984
1955	US	AIR PRODUCTS/NESTLAK	18	Pensacola			
1956	US	BORDEN	20	Leominster			1984
1956	US	CONOCO	23	Hebronville			1975
1956	US	HOOVER	27	Hicksville			1980
1957	CA	GOODRICH	2	Niagara Falls	13	57	

TABLE 21 North America PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1957	US	TENNECO/OCCIDENTAL	7	Flemington	30	64	1985
1958	US	AIR PRODUCTS/WESTLAKE	10	Calvert City	38	63	
1958	US	KEYSOR CORPORATION	29	Saugus			
1960	US	BF GOODRICH	30	Long Beach			
1960	US	BORDEN	31	Illinois			
1960	CA	DOM	6	Sarnia			1993
1962	US	TENNECO/OCCIDENTAL	32	Burlington NJ			
1963	US	CONOCO/VISTA	33	Aberdeen Miss.			
1963	US	STAUFFER	34	Long Beach			1982
1965	US	CONOCO/OLIN	12	Assmet	42	68	1975
1965	US	ETHYL	35	Baton Rouge			1984

TABLE 21 North America PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1966	CA	ESSO IMPERAIL OIL/EXXON	4	Sarnia			
1966	US	DIAMOND/GEORGIA GULF	36	Delaware City			
1966	US	GEN. TIRE/PANTASOTE	37	Mt Pleasant			1982
1966	US	BF GOODRICH	38	Henry III.			
1966	US	STAUFFER/FORMOSA	39	Delaware City			
1967	US	ALLIED/ROBINTech/GEORGIA PACIFIC	40	Painesville			
1967	US	PPG	23	Lake Charles			
1968	US	FIRESTONE/OCCIDENTAL	41	Perryville			1982
1968	US	GOODYEAR/BF GOODRICH	43	Plaquemine			
1968	US	FORMOSA PLASTICS	52	Baton Rouge I			
1969	US	GEORGIA GULF	25	Tiptonville			

TABLE 21 North America PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1969	US	DOW	17	Oyster Creek			
1969	US	SHELL	26	Deer Park			
1970	US	BF GOODRICH	42	Pedricktown			
1971	US	CONOCO/VISTA	44	Oklahoma City			
1972	US	NAT. STARCH (closed)	45	Heredosia Ill.			
1973	US	BORDEN	46	Springfield			
1974	US	ATLANTIC TUBING/TALLYRAND	47	Cranston			1982
1974	US	SHINTECH	48	Freeport			
1975	US	CERTAIN-TEED	49	Lake Charles			
1975	US	GEORGIA PACIFIC/GEORGIA GULF	50	Plaquemine			
1975	US	TENNECO/OCCIDENTAL	28	Passadena			

TABLE 21 North America PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1977	US	DOW	51	Plaquemine II			
1978	US	BF GOODRICH	53	La Porte			
1979	CA	DIAMOND SHAMROCK /BF GOODRICH	5	Fort Saskatchewan			
1979	US	FIRESTONE/OCCIDENTAL	21	Addis			
1979	CA	DOW	7	Fort Saskatchewan			
1980	US	GEORGIA GULF	56	Gallman			
1983	US	FORMOSA	24	Point Comfort			
1984	US	BF GOODRICH	55	Terra Haute			
1992	US	FORMOSA PLASTICS	54	Baton Rouge II			

TABLE 22 Japan PVC/VCM PRODUCERS 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1949	JP	CHISSO CORP	3	Minamata			
1950	JP	KANEFUCHI	2	Osaka	2	58	
1950	JP	TEKKOSHA/TOHOKU TOSOH	4	Sakata			
1951	JP	mitsui toatsu	1	Nagoya	1 3	53 65	1985
1951	JP	DENKI KAGAKU KOGYO/CO DENKI	5	Shibukawa			
1951	JP	NIPPON CARBIDE	6	Uozu			1972
1951	JP	NIPPON ZEON	7	Kanbara			1967
1951	JP	SUMITOMO CHEM. (closed)	8	Ehime			
1952	JP	MITSUBISHI MONSANTO / MITSUBISHI VINYL	9	Yokkaichi			
1953	JP	TOGOSEI CHEM.	10	Nagoya			1960
1955	JP	NISSHIN CHEM.	11	Takefu			

TABLE 22 Japan PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1956	JP	KUREHA CHEM./KUREHA KAGAKU	12	Nishiki			
1956	JP	NIPPON ZEON	13	Takaoka			
1957	JP	SHIN-ETSU CHEM.	14	Naoetsu			1973
1959	JP	NIPPON CARBIDE	15	Hayatsuki			
1960	JP	DENKI KAGAKU KOGYO/CO DENKI	16	Ohmi			1992
1960	JP	KANEGAFUCHI	17	Takasago			
1961	JP	TOAGOSEI	18	Tokushima			
1963	JP	CHISSO CORP. (closed)	19	Goi			
1966	JP	TOKUAYAMA SEKISUI	20	Nanyo			
1967	JP	SUN ARROW	21	Tokuyama			
1967	JP	SUMITOMO CHEM.	22	Chiba			

TABLE 22 Japan PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	Close-up year
1968	JP	MIKKA CHEM./MITSUBISHI VINYL	23	Mizushima			
1968	JP	SHIN-ETSU CHEM.	24	Nanyo			1988
1969	JP	NIPPON ZEON	25	Mizushima			
1970	JP	CHISSO CORP.	25	Mizushima			
1970	JP	DENKI KAGAKU KOGYO/CO DENKI	27	Chiba			
1970	JP	KANEGAFUCHI	28	Kashima			
1970	JP	KAWASAKI YUKI.	29	Kawasaki			
1970	JP	MIITSUI TOATSU CHEM.	30	Osaka			
1970	JP	SHIN-ETSU CHEM.	31	Kashima			
1970	JP	TEKKOSHA/TOSOH CORP.	32	Yokkaichi			
1971	JP	NISSAN CHEM/NISSAN KAGAKU	33	Chiba			1989

TABLE 22	Japan	PVC/VCM PRODUCERS (continued)	12/10/93
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Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1981	JP	TOSOH CORP.	34	Nanyo			

TABLE 23	Australia	PVC/VCM PRODUCERS	12/10/93
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Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1955	AU	ICI AUSTRALIA	1	Botany Sydney	1	65	
1960	AU	BF GOODRICH	2	Melbourne			
1979	AU	ICI AUSTRALIA	3	Laverton			

TABLE 24

Central and South America PVC/VCM PRODUCERS

12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1953	MX	MONSANTO MEXICO	1	Lecherfa			
1954	MX	POLICYD	7	Mexico			
1955	BR	GEON DO BRAZIL	1	Sao Paulo			
1956	BR	ELCLOR/SOLVAY	2	Santo Andre			
1960	AR	ELECTROCHLOR	1	Capitan Bermudez			
1960	AR	VIPLASTIC	2	Mendoz			
1961	AR	INDUPA	3	Cinco Saltos			
1965	CO	PET COLUMBIANA	1	Cartagena			
1966	CO	CARBURO DE COL	2	Medellin			
1967	MX	PLASTICOS OMEGA	2	Mexico			
1967	PE	SOC PARAMONGA	1	Paramonga			

TABLE 24 Central and South America PVC/VCM PRODUCERS (continued) 12/10/93

Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	Close-up year
1968	MX	PRIMEX	3	Puebla			
1970	NI	POLICASA	1	Managua			
1970	CL	PETRO DOW	1	Conception			
1971	MX	POLIMEROS MEX	4	St Martin Puebla			
1972	BR	BRASILVIL/SOLVAY	5	Santo Andre			
1975	PR	RICO CHEMICALS	1	Guanilla			
1976	VE	PETROPLAS	1	El Tablazo			
1977	MX	INDUST. RESISTOC	5	Tlaxcala			
1978	MX	POLICYD	6	Coatzacoalcas			
1978	BR	HÜLS/BRAZIL	3	Cubato			
1978	SV	POLYCHEM	1	El Salvador			

TABLE 24	Central and South America PVC/VCM PRODUCERS (continued)	12/10/93
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Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	close-up year
1979	BR	PET CAMACARI	4	Camacari Bahia			

TABLE 25	Middle East	PVC/VCM PRODUCERS	12/10/93
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Start-up year	ISO code	Company name	Plant code	Plant location	ASL case number	Year of first exposure	Close-up year
1986	SV	NATIONAL PLASTIC	1	Al-Jubail			