The Planning (Hazardous Substances) Act 1990 - Section 11
The Planning (Hazardous Substances) Regulations 1992 (Regulation 14)

Part 1 Claimant and Site

1. Claimant (IN BLOCK CAPITALS)

Address

ALBRIGHT AND WILSON LIMITED P.O. BOX 80 TRINITY STREET OLDBURY, WARLEY WEST MIDLANDS



Tel No

021 552 3333

Agent (if any) to whom correspondence should be sent (IN BLOCK CAPITALS) Address

As Above.



Tel No

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021 541 3380

Contact

Dr. M. E. Rowley

2. Full postal address or location of land to which the claim relates

As Above.

3. General description of activities carried on at the site during the establishment period

Albright and Wilson manufacture a range of chemical products derived from phosphorus or phosphoric acid. Some processes involve the use and storage of substances listed in the regulations (chlorine and phosphine) in excess of their controlled quantities.

Chlorine

Liquid chlorine is delivered to the site in shipments of 8-12 28 tonne rail cars every 2-3 days. Full tanks awaiting discharge are stored in the North East corner of the works. Tankers are shunted normally in blocks of four to the discharge bay daily where they reside until commencing the offloading into two 193 tonne (147 tonne maximum working capacity) bulk storage tanks. Chlorine is taken continuously from the bulk storage vessels for use in the manufacture of phosphorus trichloride, phosphorus oxychloride and an agrochemical intermediate (Ethyl P.C.T.).

Phosphine

Phosphine gas is manufactured from the reaction between amorphous (red) phosphorus and water. The gas is stored in a water sealed gas holder of maximum capacity $850~\rm m^3$ (1.2 tonnes) at ambient temperature prior to use in the manufacture of flame retardants for textiles on an adjacent plant.

Table A To be completed for substances notified to HSE(a) under NIHHS(b) before the relevant date(c)

Name of Substance(s) present during establishment period(d)	Entry number in Schedule 1 to the 1992 Regulations/e)	Quantity last notified to HSE(a) before the relevant date(c)	Quantity notified before start of the establishment period(d) (if applicable)	5 Established quantity(f)
CHLORINE	11	360 tonnes	360 tonnes	720 tonnes
in a				

Table B

To be completed for substances not required to be notified under NIHHS before the relevant date(c) and where a quantity not less than the controlled quantity (h) was present at any one time during the establishment period(d).

Name of Substance(s) present during establishment period(d)	2 Entry number in Schedule 1 to the 1992 Regulations(e)	3 Maximum quantity present during establishment period(d)	4 Established quantity(g)
PHOSPHINE	27	1.06 tonnes	1.59 tonnes

Notes to part 2

- (a) "HSE" stands for the Health and Safety Executive.
- (b) 'NIHHS" stands for the Notification of Installations Handling Hazardous Substances Regulations 1982.
- (c) The relevant date is 1st June 1992.
- (d) The establishment period is the 12 months period immediately preceding the relevant date.
- (e) The "1992 Regulations" means the Planning (Hazardous Substances) Regulations 1992.
- (f) The established quantity in Table A for a substance is the quantity in column (3) of that table for the substance, or twice the quantity specified in column (4) for that substance, if greater.
- (g) The established quantity in Table B for a substance is the quantity specified in column (3) of that table for that substance multiplied by 1.5.
- (h) The "controlled quantity" means the quantity specified for that substance in column 2 of the table in Part 1 of Schedule 1 to the 1992 Regulations.

For each area identified in any moveable container storage area plan which accompanies this claim specify-

(a) the maximum quantity of the hazardous substance stored in the area in moveable containers at any time during the establishment period-

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AREA A (Chlorine) 8 x 28 tonne Rail Cars = 224 tonnes

AREA B (Chlorine) 4 x 28 tonne Rail Cars = 112 tonnes
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(b) whether the substance was stored in a moveable container with a capacity in excess of 10% of the substance's controlled quantity in that area during that period and, if so, the capacity (in tonnes) of the largest moveable container in which the substance was so stored—

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AREA A (Chlorine) - Largest Moveable Container - 28 tonnes

AREA B (Chlorine) - Largest Moveable Container - 28 tonnes
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Part 4-Vessel Capacity, Temperature, and Pressure

(see next page)

Part 4 Vessel Capacity, Temperature and Pressure-Table C

		Uclow ambient	ımbient		At ambient t	At ambient temperature (c)			Above	Above ambient temperature (d)	rature	
		temperature (b)	iture (b)			117.5	17/2	1//2	8(1)	9(m)	(n)01	11(0)
		1(e)	002	3(8)	4(h)	(I)C	Mo	(all)	*			Dement at above
		Largest capacity	Highest yessel design	Buried or mounded	Buricd or mounded vessels highest vessel	Non buried or non mounded vessels	Non buried or non mounded vessels	Present at or below boiling point at 1 bar	Present at or below bedling point at 1 bar	Highest design temperature	above boiling point at 1 bar largest	hoiling point at 1 bar highest vessel
Vessel area	Entry number of substance in Schedule 1 to the 1992 Regulations		pressure	largest capacity vessel	design pressure	largest capacity ressel	highest vessel design pressure	largest capacity vessel	design pressure		capacity	design pressure
AREA 1	AREA 1 11 Chlorine	1	t	ı	ı	ı	ı	ı	I	70°C	137 m³	12 Bar Gauge
				;							(105 m³ working capacity)	
AREA 2	27 Phosphine	ı	1	ı	i .	850 m³	1	I	ı	1	ı	1
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- (a) This table should be completed for each vessel area identified in any vessel location plan which accompanies this claim, with a separate row being completed for each hazardous substance in that vessel area.
- (b) Only complete columns 1 and 2 in respect of a vessel area in which the substance was present in a vessel at below ambient temperature at any time during the establishment period.
- (c) Only complete columns 3 to 6 in respect of a vessel area in which the substance was present in a vessel at ambient temperature at any time during the establishment period.
- (d) Only complete columns 7 to 11 in respect of a vessel area in which the substance was present in a vessel at above ambient temperature at any time during the establishment period.
- (e) Column 1 Enter the capacity (in cubic metres) of the largest capacity vessel in which the substance was present in the relevant vessel area at below ambient temperature at any time during the establishment period.
- (f) Column 2 Only complete if the substance was present in a vessel at above atmospheric pressure at below ambient temperature in the relevant vessel area at any time during the establishment period.
 - To complete, enter the highest vessel design pressure of any vessel in which the substance was present in the relevant vessel area at above atmospheric pressure at below ambient temperature at any time during the establishment period.
- (g) Column 3 Only complete if the substance was present at ambient temperature in a vessel which was buried or mounded in the relevant vessel area at any time during the establishment period.
 - To complete, enter the capacity (in cubic metres) of the largest capacity buried or mounded vessel in which the substance was present at ambient temperature in the relevant vessel area at any time during the establishment period.
- (h) Column 4 Only complete if the substance was present at above atmospheric pressure at ambient temperature in a vessel which was buried or mounded in the relevant vessel area at any time during the establishment period.
 - To complete, enter the highest vessel design operating pressure of any buried or mounded vessel in which the substance was present in the relevant vessel area at above atmospheric pressure at ambient temperature at any time during the establishment period.
- (i) Column 5 Only complete if the substance was present at ambient temperature in a non-buried or non-mounded vessel in the relevant vessel area at any time during the establishment period.
 - To complete, enter the capacity (in cubic metres) of the largest capacity non-buried or non-mounded vessel in which the substance was present at ambient temperature in the relevant vessel area at any time during the establishment period.
- (j) Column 6 Only complete if the substance was present at above atmospheric pressure at ambient temperature in a non-buried or non-mounded vessel in the relevant vessel area at any time during the establishment period.
 - To complete, enter the highest vessel design operating pressure of any non-buried or non-mounded vessel in which the substance was present in the relevant vessel area at above atmospheric pressure at ambient temperature at any time during the establishment period.
- (k) Column 7 Only complete if the substance was present in a vessel at above ambient temperature at or below its boiling point at 1 bar absolute in the relevant vessel area at any time during the establishment period.
 - To complete, enter the capacity (in cubic metres) of the largest capacity vessel in which the substance was present at above ambient temperature at or below its boiling point at 1 bar absolute in the relevant vessel area at any time during the establishment period.

- (1) Column 8 Only complete if the substance was present at above atmospheric pressure at above ambient temperature at or below its boiling point at 1 bar absolute in a vessel in the relevant vessel area at any time during the establishment period.
 - To complete, enter the highest vessel design operating pressure of any vessel in which the substance was present at above atmospheric pressure at above ambient temperature at or below its boiling point at 1 bar absolute in a vessel in the relevant vessel area at any time during the establishment period.
- (m) Column 9 Enter the highest design operating temperature (in centigrade) of any vessel in which the substance was present at above ambient temperature in the relevant vessel area at any time during the establishment period.
- (n) Column 10 Only complete if the substance was present in a vessel at above its boiling point at 1 bar absolute in the relevant vessel area at any time during the establishment period.
 - To complete, enter the capacity (in cubic metres) of the largest capacity vessel in which the substance was present at above its boiling point at 1 bar absolute in the relevant vessel area at any time during the establishment period.
- (0) Column 11 Only complete if the substance was present at above atmospheric pressure above its boiling point at 1 bar absolute in a vessel in the relevant vessel area at any time during the establishment period.

To complete, enter the highest vessel design operating pressure of any vessel in which the substance was present at above atmospheric pressure at above its boiling point at 1 bar absolute in a vessel in the relevant vessel area at any time during the establishment period.

Part 5

I/We hereby claim hazardous substances consent in accordance with the information provided(a).

on behalf of .ALBRIGHT & WILSON LTD

Date 26 Nov 1992

Notes to Part 5

(a) The hazardous substances authority is required to notify you within 2 weeks from receipt of the claim if, in their opinion, the claim is invalid and to give their reasons for that opinion. If the claim is valid that authority shall be deemed to have granted the hazardous substances consent claimed, subject to the conditions set out in section 11(7) of the Planning (Hazardous Substances) Act 1990 and Schedule 3 to the Planning (Hazardous Substances) Regulations 1992.