

APPROVED

HS/026

14 FEB 2000

Subject to the conditions
appearing in the Approval Form 1
Notice

The Planning (Hazardous Substances) Act 1990 - Section 7(1)
The Planning (Hazardous Substances) Regulations 1992 (Regulations)

General Application for Hazardous Substances Consent

1. Name and Address of Applicant (IN BLOCK CAPITALS)

ALBRIGHT & WILSON UK LIMITED
OLDBURY WORKS
PO BOX 80
TRINITY STREET
OLDBURY
WEST MIDLANDS
B69 4LN

Telephone No. 0121-5523333

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

Address as above.

Telephone No. 0121-5523333

Contact Mr A V McGrath

2. Address or location of application site together with O.S. grid reference

Address as above.

O.S. grid reference SO 993885

3. Substance(s) covered by the application

- (a) List named substances falling within Part A of Schedule 1 to the 1992 Regulations (a) first, then list any substances falling within the categories in Part B of that Schedule; finally list substances falling within the description in Part C.
- (b) Substances falling within Parts B or C of Schedule 1 to the 1992 Regulations may be listed under the relevant category or description or named specifically. Where a substance falls within Part A and B list under Part A only; where a substance falls within more than one category in Part B list under the category which has the lowest controlled quantity (b). Where a substance falling within Part A or B also falls within Part C list under the Part which has the lowest controlled quantity.

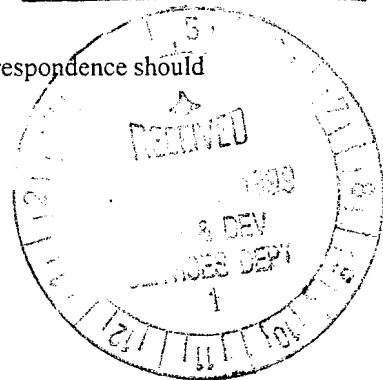
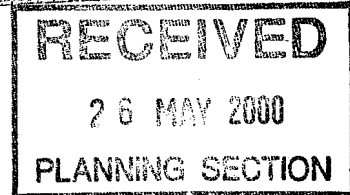
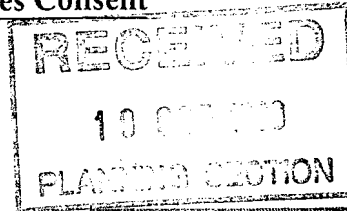


Table A

<i>Name, or relevant category or description of substance</i>	<i>Part and entry number (c) in Schedule 1 to the 1992 Regulations</i>	<i>Do you have a current PHS consent¹ in respect of this substance? (Yes/No)</i>	<i>If "yes", state quantity for which consent granted</i>	<i>Maximum quantity proposed to be present in tonnes</i>	<i>Substance Location Refer to Appendix I</i>
P4 Phosphorus (elemental)	B-1	No	n/a	800 tonnes	Hatched Area
Trichloride Washings	B-1	No	n/a	150 tonnes	Hatched Area
Accomet C	B-2	No	n/a	16 tonnes	Hatched Area
Chromic Acid	B-2	No	n/a	5 tonnes	Hatched Area
Ethyl monochloroacetate	B-2	No	n/a	25 tonnes	Hatched Area
Phenol	B-2	No	n/a	5 tonnes	Hatched Area
TEPA Strippings	B-2	No	n/a	35 tonnes	Hatched Area
Acetonitrile	B-2	No	n/a	5 tonnes	Hatched Area
Octene	B-10(i)	No	n/a	25 tonnes	Hatched Area
Sodium Fluoride	B-2	No	n/a	100 tonnes	Hatched Area
Pentaethylene Hexamine	B-10(i)	No	n/a	20 tonnes	Hatched Area

¹ a hazardous substances consent.

4. Manner in which substance(s) are to be kept and used.

For each substance, category or description of substance, covered by the application, provide the following information, referring to the substance location plan where appropriate.

- (a) Tick one box below to show whether the substance(s) will be present for storage only or will be stored and involved in a manufacturing, treatment or other industrial process:

Table B

<i>Name, or relevant category or description of substance</i>	<i>Part and entry number in Schedule 1 to the 1992 Regulations</i>	<i>Storage only</i>	<i>Stored and involved in an industrial process</i>
P4 Phosphorus	B-1		✓
Trichloride Washings	B-1		✓
Accomet C	B-2		✓
Chromic Acid	B-2		✓
Ethyl monochloroacetate	B-2		✓
Phenol	B-2		✓
TEPA Strippings	B-2		✓
Acetonitrile	B-2		✓
Sodium Fluoride	B-2		✓
Pentaethylene Hexamine	B-10(i)		✓
Octene	B-10(ii)		✓

- (b) For each vessel to be used for storing the substance(s) give the following information:

(see following page)

Table C

Name, or relevant category or description of substance	Vessel No ² Refer to Appendix II	Part and entry number in Schedule I to the 1992 Regulations of substance(s) to be stored in vessel	Installed above ground ³ (Yes/No)	Buried (Yes/No)	Mounded (Yes/No)	Maximum capacity (cubic metres)	Highest vessel design temperature °C	Highest vessel design pressure (bar absolute)
P4 Phosphorus (elemental)	VESSEL 1, 2 & 3	B-1	Y	N	N	75 m ³ (69 m ³ working)	+80°C	1
	VESSEL 4	B-1	Y	N	N	32 m ³ (24 m ³ working)	+80°C	1
	VESSEL 5	B-1	Y	N	N	10 m ³ (8.6 m ³ working)	+70°C	1
	VESSEL 6	B-1	Y	N	N	99 m ³ (86 m ³ working)	+80°C	1
	n/a	B-1	-	-	-	-	-	-
	n/a	B-2	-	-	-	-	-	-
Trichloride Washings	n/a	B-1	-	-	-	-	-	-
Accomet C	n/a	B-2	-	-	-	-	-	-
Chromic Acid	n/a	B-2	-	-	-	-	-	-
Ethyl monochloroacetate	TANKER 1	B-2	Y	N	N	25 m ³	+248°C	5
Phenol	n/a	B-2	-	-	-	-	-	-
TEPA Strippings	VESSEL 7	B-2	Y	N	N	24 m ³	+30°C	1
Acetonitrile	n/a	B-2	-	-	-	-	-	-
Sodium Fluoride	n/a	B-2	-	-	-	-	-	-
Pentaethylene Hexamine	n/a	B-10(i)	-	-	-	-	-	-
Octene	TANKER 2	B-10(ii)	Y	N	N	25 m ³	+248°C	5

² identify by reference to substance location plan

³ if "Yes", specify whether or not it will be provided with full secondary containment

* All vessels/tankers have full secondary containment.

(c) For each substance, category or description of substance, state the largest size (capacity in cubic metres) of any moveable container(s) to be used for that substance, category or description of substances:

<i>Name, or relevant category or description of substance</i>	<i>Part and entry number in Schedule 1 to the 1992 Regulations</i>	<i>Largest size moveable container (cubic metres)</i>
P4 Phosphorus	B-1	25 m ³
Trichloride Washings	B-1	1.2 m ³
Accomet C	B-2	1.2 m ³
Chromic Acid	B-2	0.05 m ³
Ethyl monochloroacetate	B-2	25 m ³
Phenol	B-2	0.210 m ³
TEPA Strippings	B-2	n/a
Acetonitrile	B-2	0.205 m ³
Sodium Fluoride	B-2	1.2 m ³
Pentaethylene Hexamine	B-10(i)	0.250 m ³
Octene	B-10(ii)	25 m ³

(d) Where a substance, category or description of substance is to be used in a **manufacturing, treatment or other industrial process(es)**, give a general description of the process(es), describe the major items of plant which will contain the substance(s); and state the maximum quantity (in tonnes) which is liable to be present in the major items of the plant, and the maximum temperature (°C) and pressure (bar absolute) at which the substance, category or description of substance is liable to be present:

Table D

Name, or relevant category or description of substance	Description of process(es)	Major items of plant [†]	Max. quantity (tonnes)	Max. temp. (°C)	Max. pressure (bar absolute)
P4 Phosphorus (elemental)	1. Reacted with chlorine to produce phosphorus trichloride. 2. Converted to amorphous (red) phosphorus with heat and reacted with steam to produce phosphine gas.	1a Two 14.8 m ³ reactors, three 13.2 m ³ reactors (A) 1b 1.6 m ³ head tank (A) 1c 0.5 m ³ head tank (A) 2a Two 1.9 m ³ converters (B) 2b Two 0.6 m ³ head tanks (B) 2c Two 10 m ³ hot condenser sumps (B)	1a 2 1b 2.7 1c 0.85 2a 0.25 2b 1.1 2c 4.2	1a 150 1b 80 1c 80 2a 300 2b 80 2c 80	1a 1.5 1b 1.1 1c 1.1 2a 1.1 2b 2.5 2c 1
Trichloride Washings	Reactor & scrubber waste from the production of phosphorus trichloride.	Two 14.8 m ³ reactors, Three 13.2 m ³ reactors (A)	23	100	1.5
Accomet C	A finished product of highly sheared silicon in chromic solution, used in the metals finishing industry.	0.9 m ³ Torrance mixer (C)	0.9	50	1
Chromic Acid	Raw material used in the production of Accomet and as a component in various blends.	2.5 m ³ CLB Blend vessel (D) 2.5 m ³ RCA Reactor (C) 2.3 m ³ RCA holding tank (C)	0.3 0.3 0.3	30 100 50	1 1 1
Ethyl monochloroacetate	Raw material used in the production of triethylphosphonoacetate (TEPA), involving reaction and vacuum stripping stages.	9 m ³ Semi-works reactor vessel (E)	5	150	2.5
Phenol	Raw material used to manufacture a number of phosphorus intermediates, involving reaction and distillation stages.	Pilot Plant 2.25 m ³ reactor vessel (F)	1.5	60	1
TEPA Strippings	Waste stream evolved from the distillation stage in the manufacture of triethylphosphonoacetate (TEPA).	2.25 m ³ Semi-works condensate receiver tank (E)	2	40	1
Acetonitrile	Raw material used to manufacture phosphorus derivatives.	2.3 m ³ Pilot plant reactor vessel (F)	1	125	1
Sodium Fluoride	Raw material used in the manufacture of sodium monofluorophosphate.	2 m ³ Tote bin (G)	0.4	30	1
Pentaethylene Hexamine	Raw material used in the manufacture of aminomethylene phosphonates (Briquets), involving reaction, distillation and adjustment stages.	4.5 m ³ Briquet reactor vessel (H)	0.4	130	1
Octene	Raw material used in the manufacture of Octyl-phosphonic acid, involving reaction and vacuum stripping stages.	9 m ³ Semi-works reactor vessel (E)	5	160	2.5

[†] identify by reference to vessel location plan using letters in brackets

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5. Additional Information

(a) If you have an existing PHS consent(s) as referred to in Table A, enclose a copy of each consent with this application.

(b) Has any application for hazardous substances consent or planning permission relating to the application site been made which has not yet been determined? ~~YES~~/NO

(c) Will any such application be submitted at the same time as this application? YES/~~NO~~

If you have answered "YES" to either of these preceding questions, provide sufficient details to enable the application(s) to be identified.

Deemed Hazardous Substances Consent has been applied for lesser quantities of all substances listed.

(d) **Plans.** List the maps or plans or any explanatory scale drawings of plant/buildings submitted with this application.

APPENDIX I: Substance Location Plan

APPENDIX II: Vessel Location Plan

APPENDIX III: Site Map

(e) Give any further information which you consider to be relevant to the determination of this application.

The 800 te of phosphorus may include up to 20 x 25 te iso tankers.

I/We hereby apply for hazardous substances consent in accordance with the proposals described in the application

Signed

on behalf of ALBRIGHT & WILSON UK LTD

(insert applicant's name if signed by agent)

Date 20 October 1999

Notes

(a) The "1992 Regulations" are the Planning (Hazardous Substances) Regulations 1992, as amended by the Planning (Control of Major-Accident Hazards) Regulations 1999.

(b) The "controlled quantity" means the quantity specified for that substance in column 2 of Parts A, B or C of Schedule 1 to the 1992 Regulations.

(c) For Part C, state the Part only.

5. Additional Information

- (a) If you have an existing PHS consent(s) as referred to in Table A, enclose a copy of each consent with this application.
- (b) Has any application for hazardous substances consent or planning permission relating to the application site been made which has not yet been determined? ~~YES~~/NO
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