



**ENVIRONMENT
AGENCY**

Variation Notice with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

**Wincham Organic Specialities
Thor Specialities (UK) Limited
Wincham Avenue
Wincham
Northwich
Cheshire CW9 6GB**

Variation Notice number

JP3938XS

Permit number

BL6403IQ

Wincham Organic Specialities

Permit Number BL6403IQ

Introductory note

This introductory note does not form a part of the permit

The following notice is issued under regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the Regulations) to vary the conditions of a permit issued under the Regulations to operate an installation. The notice comprises schedule 1 containing conditions to be deleted, schedule 2 conditions to be amended and schedule 3 conditions to be added.

Brief description of the changes introduced by this variation notice.

This variation is to allow the Operator to manufacture Iodo propargyl butyl carbamate (IPBC) and to recover the solvent used in its manufacture by means of distillation. IPBC is a biocide.

The process is a two stage process and will utilise an existing reactor within production hall 1. A centrifuge and dryer are being installed for separating and drying the finished product, and a new distillation unit for the recovery of solvent.

The Operator has provided a non-technical summary as part of the variation application. The first stage has no wastes or by-products. The second stage produces a filtrate stream that forms the feed for the solvent recovery unit. In this unit both the solvent and water are recovered for recycling back into the process. A small waste stream (approximately 10% of the mother liquors) is sent for disposal. Washings from the centrifuge are discharged to trade effluent. There are also only limited emissions of solvent to air, and the process is fitted with a wet scrubbing abatement system to reduce final emissions to a level that will have insignificant environmental impact. Emissions from the centrifuge and the storage tanks are abated by means of carbon beds.

The batch size for IPBC is typically 600kg, and it is anticipated that production will build up to approximately 500 batches per annum over 4 years.

The process has been developed in-house by the Operator. Details of all materials and the process have been provided, but the Operator has claimed commercial confidentiality, which has been granted, and sections of the application have been withheld from the public register.

Status Log

Detail	Date	Comment
Application BL6403IQ	Received 6 February 2003	
Response to notice requiring further information.	Request 2 May 2003	Response 21 July 2003
Request to extend determination	Request 21 August 2003	Response 27 August 2003
Request to extend determination	Request 4 November 2003	Response 5 November 2003
Permit BL6403IQ	Determined 14 November 2003	
Application HP3437SG	Received 19/05/2005	
Variation HP3437SG	Determined 25/10/2005	
Application JP3938XS	Received 01/02/2008	
Variation JP3938XS	Determined 11/04/2008	Effective 21/04/2008

End of Introductory Note

Variation Notice

**Pollution Prevention and Control
(England and Wales) Regulations 2000**

Variation Notice

Permit number

BL6403IQ

Variation number

JP3938XS

The Environment Agency (the Agency) in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) hereby varies the permit held by

Thor Specialities (UK) Limited ("the operator"),

whose registered office is

Wincham Avenue

Wincham

Northwich

Cheshire CW9 6GB

Company registration number 1761700

to operate an installation at

Wincham Avenue

Wincham

Northwich

Cheshire CW9 6GB

to the extent set out in schedules 1 to 3 of this variation notice .

The notice shall take effect from 21 April 2008

Signed

Date

	11 April 2008
---	---------------

Catherine Shaw; PPC Team Leader, Cheshire

Authorised to sign on behalf of the Agency

SCHEDULE 1 – CONDITIONS TO BE DELETED

None

SCHEDULE 2 – CONDITIONS TO BE AMENDED

The following conditions are amended as follows

1. Condition 1.1.1 to:

1.1.1 The Operator is authorised to carry out the activities and the associated activities specified in Table 1.1.1.

Table 1.1.1

Activity listed in Schedule 1 of the PPC Regulations / Associated Activity	Description of specified activity	Limits of specified activity
Section 4.1A(1)(a) (ii) Producing organic compounds containing oxygen	Manufacture of organic compounds	As specified in Condition 2.1.1 of this permit
Section 4.1A(1)(a) (iii) Producing organic compounds containing sulphur	Manufacture of organic compounds	As specified in Condition 2.1.1 of this permit
Section 4.1A(1)(a) (iv) Producing organic compounds containing nitrogen	Manufacture of organic compounds	As specified in Condition 2.1.1 of this permit
Section 4.1A(1)(a) (v) Producing organic compounds containing phosphorus	Manufacture of organic compounds	As specified in Condition 2.1.1 of this permit
Section 4.1A(1)(a)(vi) Producing organic compounds containing halogens	Manufacture of organic compounds	As specified in Condition 2.1.1 of this permit
Section 4.2A(1)(a)(iv) Producing inorganic chemicals such as salts	Manufacture of inorganic salts	As specified in Condition 2.1.1 of this permit
Section 5.4A(1)(a) Recovering by distillation any oil or organic solvent	Recovery of Solvent	As specified in Condition 2.1.1 of this permit
Directly associated activity: Blending and adjusting	Mixing, blending and adjusting organic and inorganic compounds	
Directly associated activity: Solvent removal	Solvent removal by distillation at elevated temperature or under vacuum	
Directly associated activity: Storage of materials	Receipt, handling, storage and despatch of raw materials and finished products both packed and in bulk.	
Directly associated activity: Combustion activities	Burning natural gas in a steam boiler (1.7MW output) and hot oil furnace (0.24MW output).	
Directly associated activity: Effluent treatment	Handling, treatment and discharge to sewer of aqueous effluent	
Directly associated activity: Waste handling and storage	Handling and storage of various solid and liquid wastes from the process.	

2. Condition 2.1.1 to:

2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the Agency in accordance with conditions 1.5.1 and 1.5.2 of this Permit.

Table 2.1.1: Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.1 and 2.2 given in sections B2.1.1, B2.1.2 and B2.2 of the application	06/02/2003
Response to Schedule 4 Part 1 Notice	The response to questions 6 to 23 inclusive given in sections B2.1, B2.2, appendices 1 to 6 and plans 6 to 10.	21/07/2003
Application for Variation	The response to questions C2.2 and C2.3 given in sections C1.0, C2.1.2, C2.3 and C2.10 of the variation application.	07/10/2005
Application for Variation	The response to questions C2.2 and C2.3 given in sections 2.2 and 2.3 of the variation application.	01/02/2008

3. Condition 2.2.1.2 to:

2.2.1.2 Emissions to air from the emission points in Table 2.2.1 shall only arise from the source(s) specified in that Table.

Table 2.2.1 : Emission points to air

Emission point reference or description	Source	Location of emission point
A1 Production Hall Stack	General ventilation – air out: LEV System: Reaction vessels-breathing/pressure release: Liquid ring vacuum pumps: Reactor 9 Scrubber	Point Stk 1 on site plan
A2 Steam Boiler Stack	Steam Boiler	Point Stk 2 on site plan
A3 Hot Oil Generator Stack	Hot Oil Generator	Point Stk 3 on site plan
A4 Solvent Recovery Condenser Vent	Reflux Vessel Condenser	Point Stk 4 on site plan
A5 Carbon Bed for Methanol Storage	Methanol Storage	Point Stk 5 on site plan
A6 Centrifuge Carbon Bed	Centrifuge	Point Stk 6 on site plan

4. Condition 2.4.1.1 to:

The Operator shall, subject to the conditions of this Permit, use raw materials (including water) as described in the documentation specified in Table 2.4.1, or as otherwise agreed in writing by the Agency.

Table 2.4.1 : Raw materials (including water)

Description	Parts	Date Received
Application	The response to section 2.4 of the application	6 February 2003
Application for Variation	The response to question C2.4 given in section C2.4 of the variation application	7 October 2005
Application for Variation	The response to question C2.4 given in section C2.4 of the variation application	1 February 2008

SCHEDULE 3 – CONDITIONS TO BE ADDED

The following conditions are added to the permit:

1.

Table 9.1.1 : Improvement programme requirements

Reference	Requirement	Date
1.4.1.7	The Operator shall provide the Agency in writing a commissioning report for the IPBC process. The report shall include as a minimum:- • Confirmation that the emission levels observed are as indicated in the variation application. • Results of any monitoring carried out. • The results and conclusions of any noise monitoring carried out. • Confirmation that the process operators, and maintenance personnel, with duties related to the IPBC process, have received appropriate training and demonstrated competence. • Details of any situations that arose that resulted in, or had the potential to cause, significant negative environmental impact..	1 month after completion of commissioning. (Date to be agreed in writing by the Agency)

End of Variation Notice

