

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Thor Specialities (UK) Limited

Wincham Organic Specialities
Wincham Avenue
Wincham
Northwich
Cheshire
CW9 6GB

Variation application number
EPR/BL6403IQ/V004

Permit number
EPR/BL6403IQ

Wincham Organic Specialities

Permit number EPR/BL6403IQ

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

This variation enables the use of an organic solvent, heptane, to aid purification of a chemical product, IPBC (permitted in variation JP3938XS of this permit). The purification stage involves solvent washing which is followed by distillation to recover the solvent for reuse. Emissions from this part of the process are captured in a carbon bed and emissions to air are negligible. Impact on the environment has been demonstrated to be insignificant. There are no changes to emissions to water or sewer resulting from this change. There is a new waste stream – the bottom fraction of the distillation unit – which is disposed of by a licensed operator.

The schedules specify the changes made to the original permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application BL6403IQ (under PPC 2000) (EPR/BL6403IQ/A001)	06/02/03	
Permit BL6403IQ determined	14/11/03	Permit issued
Application HP3437SG (EPR/BL6403IQ/V002)	19/05/05	
Variation HP3437SG determined	25/10/05	Varied permit issued.
Application JP3938XS (EPR/BL6403IQ/V003)	01/02/08	
Variation (EPR/BL6403IQ/V003)	11/04/08	Varied permit issued.
Application received (under EPR 2010) EPR/BL6403IQ/V004	Duly made 01/11/11	
Variation EPR/BL6403IQ/V004	09/11/11	Varied permit issued.

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

Permit number
EPR/BL6403IQ

issued to:
Thor Specialities (UK) Limited ("the operator")

whose registered office is

Wincham Avenue
Wincham
Northwich
Cheshire
CW9 6GB

company registration number 1761700

to operate a regulated facility at

Wincham Avenue
Wincham
Northwich
Cheshire
CW9 6GB

to the extent set out in the schedules.

The notice shall take effect from 9 November 2011

Name	Date
PAUL BUTLER	9 November 2011

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator.

Condition 2.1.1 refers to Table 2.1.1 *Operating techniques* which shall be amended by the addition of the references to variation EPR/BL6403IQ/V004.

Table 2.1.1: Operating techniques

Description	Parts	Date Received
Application (BL6403IQ)	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 HP3437SG (EPR/BL6403IQ/V002)	The response to questions C2.2 and C2.3 given in sections C1.0, C2.1.2, and C2.10 of the variation application	07/10/2005
Application for variation JP3938XS (EPR/BL6403IQ/V003)	The response to questions C2.2 and C2.3 given in sections 2.2 and 2.3 of the variation application	01/02/2008
Application for variation EPR/BL6403IQ/V004	Supporting information (revision 2) to the application for variation.	01/11/2011

Condition 2.2.1 refers to Table 2.1.1 *Emission points to air* which shall be amended by the addition of the references to variation EPR/BL6403IQ/V004.

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	Point Stk 1 on amended site plan
A2 Steam Boiler Stack	Steam Boiler	Point Stk 2 on amended site plan
A3 Hot Oil Generator Stack	Hot Oil Generator	Point Stk 3 on amended site plan
A4 Solvent recovery condenser vent	Reflux vessel condenser	Point Stk 4 on amended site plan
A5 Carbon bed for methanol storage	Methanol storage	Point Stk 5 on amended site plan
A6 Centrifuge carbon bed	Centrifuge	Point Stk 6 on amended site plan
A7 Heptane solvent purification carbon bed	Heptane recovery distillation unit	Point Stk 7 on amended site plan

Condition 2.2.1.3 refers to Table 2.2.2 *Emission limits to air and monitoring* which shall be amended by the addition of the references to emission points A4, A5, A6 and A7.

Table 2.2.2 : Emission limits to air and monitoring

Emission point reference	Parameter	Limit (note1)	Monitoring frequency	Monitoring method
A1	Benzyl Chloride	10 mg/m ³	6 Months	BS EN 13649
A1	Formaldehyde	1 mg/m ³	6 Months	BS EN 13649
A1	Amines (total as DMA)	5 mg/m ³	6 Months	BS EN 13649
A1	Ammonia	15 mg/m ³	6 Months	Ion Chromatography; M2 version 1 table 6.6.4
A1	VOC total class B (expressed as carbon)	75 mg/m ³ (note 2)	6 Months	BS EN 13649
A4, A5, A6, A7	VOC total class B (expressed as carbon)	75 mg/m ³ (note 2)	On request by Agency	BS EN 13649

Note 1: See Section 6 of the permit for reference conditions

Note 2: Concentration of 75 mg/m³ if mass release rate > 2kg/h

Condition 4.1.3 refers to Table S4.2 *Performance parameters* which shall be amended by the addition of the reference to the quantity of waste arisings from the distillation unit.

Table S4.2: Performance parameters

Parameter	Frequency of assessment	Performance indicator
BOD	Monthly	BOD/t
COD	Monthly	COD/t
Waste arisings from heptane distillation unit	Annual	Tonnes
Waste arisings from spent carbon drums	Annual	Tonnes

Schedule 3 – conditions to be added

None

Schedule 4 – amended plan

Amended site plan attached

Amended site plan

