Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Akcros Chemicals Ltd

Eccles Diisocyanate Polymerisation Plant
PO Box 1
Lankro Way
Eccles
Greater Manchester
M30 0BH

Variation application number

EPR/WP3934UM/V002

Permit number

EPR/WP3934UM

Eccles Diisocyanate Polymerisation Plant
Permit number EPR/WP3934UM

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 is to add a reactor system (S17) to carry out phosphite transesterification reactions to manufacture high purity tris-alkyl phosphite esters on the existing Flexibles II Plant. This is an additional listed activity (listed in Schedule 1, s.4.1 A(1) (a) (v) of the Environmental Permitting Regulations (England and Wales) 2010.

The phosphite transesterification process is carried out in batches. Aliphatic alcohol is charged to the S17 reactor vessel and vacuum dehydrated. The alcohol is cooled and the phosphite ester (trimethyl phosphite or triethyl phosphite) added, together with a catalyst (sodium or potassium methoxide). Methanol by-product is evolved and vented through the vacuum system. The reactor is then heated and further methanol by-product is distilled to the by-product catch-pot. The reactor system is then re-configured for distillation of the excess higher aliphatic alcohols to the alcohol catch-pot. The reactor is then cooled and the product (tris-alkyl phosphite ester) is filtered to final product storage and/or containers.

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 WP3934UM	Duly made 16/10/07	
Schedule 4 notice	27/11/07	14/12/07
Permit issued	25/02/08	
Variation Application EPR/WP3934UM/V002	Duly made 31/07/12	
Variation determined EPR/WP3934UM/V002	10/09/12	

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/WP3934UM

issued to:
Akcros Chemicals Ltd ("the operator")

whose registered office is

5 The Courtyard
Timothy's Bridge Road
Stratford-upon-Avon
Warwickshire
CV37 9NP

company registration number 995767

to operate a regulated facility at

Eccles Diisocyanate Polymerisation Plant
PO Box 1
Lankro Way
Eccles
Greater Manchester
M30 0BH

to the extent set out in the schedules.

The notice shall take effect from 10/09/2012

Name	Date
Eirian MacDonald	**10/09/2012**

Principal Permitting Team Leader, National Permitting Service

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

Table S1.1 activities		
Activity listed in Schedule 1 of the EPR Regulations	**Description of specified activity**	**Limits of specified activity**
S4.1 A1(a)(iv)	Manufacture of partially polymerised di isocyanates	From receipt of raw materials to despatch of product from the installation
S4.1 A1 (a)(v)	Manufacture of tris-alkyl phosphite esters by phosphite transesterification	From receipt of raw materials to despatch of product from the installation
Directly Associated Activity		
Waste handling	Storage and handling of process wastes	From generation of waste to despatch of waste from the installation
Gas fired oil heater	Heating heat-transfer oil by gas-fired burner	Heating heat-transfer oil for use in the installation.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application WP3934UM	Sections B2.1 and B2.2 of the application form. Sections 2, 3 and 4 of supporting information.	16/10/07
Schedule 4 response	The response to questions 6, 7, 8, 10, 11, 13, 14 and 15	14/12/07
Variation application EPR/WP3934UM/V002	Supporting Information Document Ref WP3934UM-S17, Section 1-4 and Annexes 1 & 2.	02/07/12
Variation application EPR/WP3934UM/V002 Additional Information	Response to 'NOT DULY MADE – INFORMATION REQUEST No.2 – EPR/WP3934UM/V002'.	31/07/2012

Table S4.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
A1 [Point A1 on site plan in Schedule 2]	Isocyanates (as NCO)	Local exhaust ventilation from S13 process building	0.1 mg/m^3	Daily average	Continuous	As specified in the application
A2 [Point A2 on site plan in Schedule 2]	No parameter set	Vent on dibutyl phthalate storage tank	No limit set	-	-	-
A3 [Point A3 on site plan in Schedule 2]	Aliphatic Alcohols	Scrubber vent	2050 mg/m^3	Spot	Quarterly	BS EN 13649
A3 [Point A3 on site plan in Schedule 2]	Methanol	Scrubber vent	6200 mg/m^3	Spot	Quarterly	BS EN 13649
A4 [Point A4 on site plan in Schedule 2]	Trimethyl phosphite	Local exhaust ventilation from S17 process building	0.1 mg/m^3	Spot	Quarterly	BS EN 13649
A4 [Point A4 on site plan in Schedule 2]	Methanol	Local exhaust ventilation from S17 process building	0.1 mg/m^3	Spot	Quarterly	BS EN 13649
A5 [Point A5 on site plan in Schedule 2]	No parameter set	Gas burner	No limit set	-	-	

Table S5.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**Period begins**
Emissions to air Parameters as required by condition 3.6.1.	A1, A3, A4	Every 6 months	01/01/13

Table S5.2: Annual production/treatment	
Parameter	**Units**
Named product produced in reactor system S13	Tonnes
Named product produced in reactor system S17	Tonnes

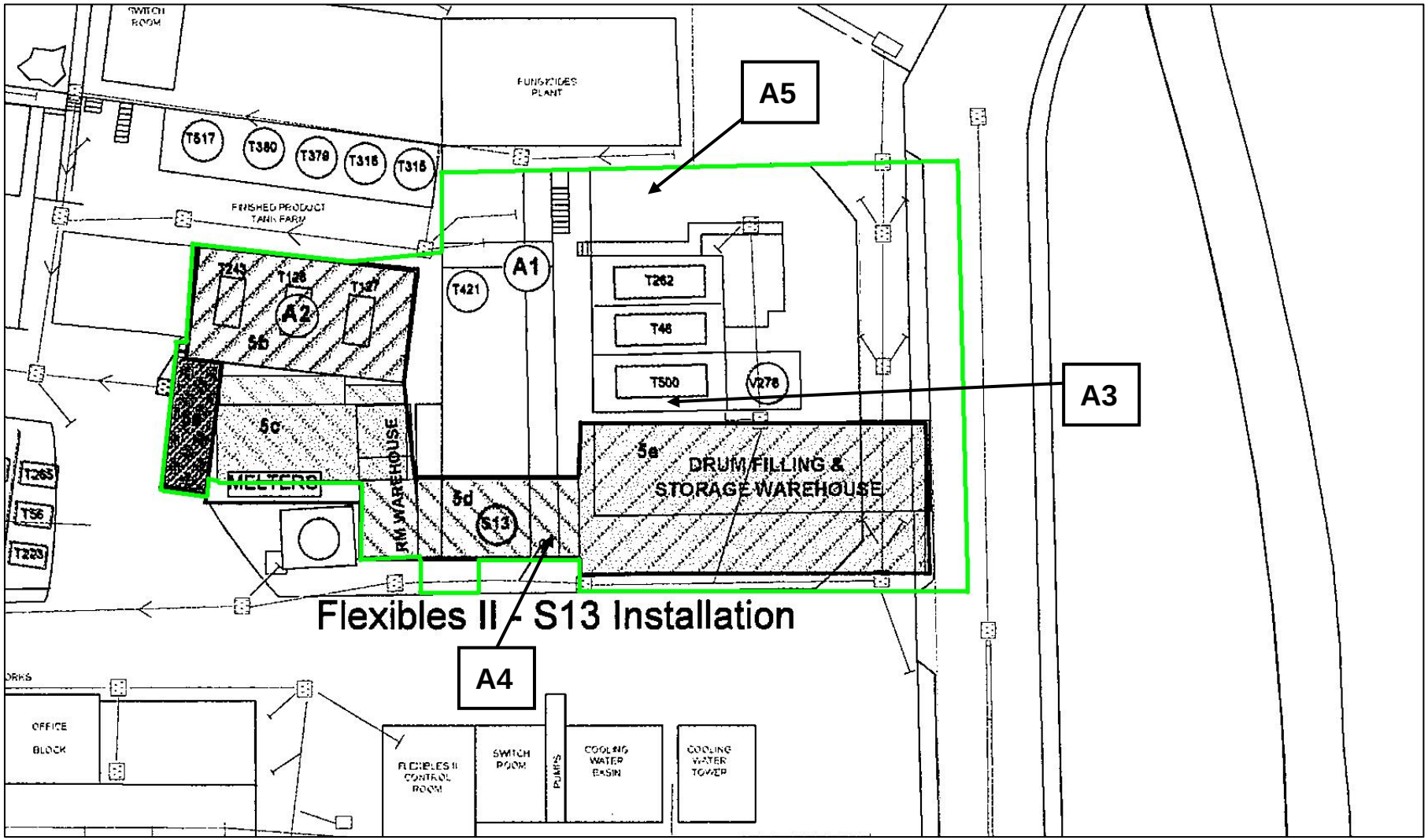
Table S5.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Air	Form air 1 or other form as agreed in writing by the Agency	30/07/12

Schedule 3 – conditions to be added

None

Schedule 4 – amended plan

Amended plan attached


A5
A1
A2
A3
A4
T517
T380
T379
T316
T315
FUNGICIDES PLANT
FINISHED PRODUCT TANK FARM
T421
T262
T46
T500
V276
5b
5c
5d
5e
MELTERS
RM WAREHOUSE
DRUM FILLING & STORAGE WAREHOUSE
S13
T265
T56
T229
Flexibles II - S13 Installation
OFFICE BLOCK
FLEXIBLES II CONTROL ROOM
SWITCH ROOM
PUMPS
COOLING WATER BASIN
COOLING WATER TOWER