

2013 Annual Environmental Report

For

TopChem Pharmaceuticals Limited,
Ballymote Business Park,
Carrownanty,
Ballymote,
Co Sligo.

License Number: PO828-01

<u>Name</u>	<u>Title</u>	<u>Signature</u>	<u>Date</u>
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	Development Manager		1 - +
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Margaret Garry	Production Manager	1. Ll Gay	06/08/2014
Dr Donal Coveney	Managing Director	Noveman	06/03/2014

Table of Contents:

Section	Topic	Page Number
1.0	Introduction	3
1.1	Company Details	3
1.2	Activities	3
1.3	Environmental Policy	4
1.4	Environmental Management of the Company / Company Structure	4
2.0	Resource Information	6
2.1	Resource Consumption	6
2.2	Waste	10
2.3	Energy and Water Usage	28
2.4	Environmental Incidents and Complaints	28
3.0	Environmental Management of Activity	29
3.1	Environmental Objectives and Targets 2013	29
3.2	Environmental Management Report	30
3.3	Environmental Management Proposals 2014	31
4.0	Financial Provision	32
5.0	Licence Specific Reports	32
5.1	Pollutant Release Transfer Register (PRTR)	32
5.2	Residual Management Plan	32
5.3	Solvent Management Plan	32
5.4	Environmental Liability Risk Assessment (ELRA)	35
	AER Returns Worksheet	36

1.0 Introduction

As per condition 11.8 of the TopChem Pharmaceuticals Limited Integrated Pollution Prevention & Control License, License Register Number P0828-01, attached is the Annual Environmental Report for the site covering period January 1st 2013 to December 31st 2013.

1.1 Company Details

TopChem Pharmaceuticals Limited is located in the Ballymote Business Park, Carrownanty, Ballymote, Co Sligo (National Grid Reference - 565818, 815634) where it is operating from a building leased from Ballymote Community Enterprise Limited. On February 20th 2008, TopChem Pharmaceuticals was granted an Integrated Pollution Prevention & Control (IPPC) license from the Environmental Protection Agency.

1.2 Activities

The IPPC License authorises TopChem Pharmaceuticals Limited to carry out the following activity at the site;

The use of a chemical or biological process for the production
Of basic pharmaceutical products.

NACE Code - 2120

RBME Risk Category - P-C2

To date TopChem Pharmaceuticals has been involved in the manufacture of the following products at the facility;

- Malathion
- Benzyl Benzoate
- PGX-17
- Bretylium Tosylate
- Salicylic Acid
- 2,4 Dichlorobenzyl Alcohol
- Thiamine Hydrochloride
- Ethacrynic Acid
- Piribedil
- Tolcapone

There was no production in 2013 for Malathion, Salicylic Acid, 2,4 Dichlorobenzyl Alcohol and PGX-17 due to no customer demand for these products. Benzyl Benzoate & Thiamine Hydrochloride production were down on 2012 figures, again due to customer demand. Bretylium Tosylate production increased YoY, an order for 8Kgs of Ethacrynic Acid was started in production and Tolcapone was successfully developed & brought through production. In addition, processes for Selenious Acid, Myristyl Gamma Picolinium Chloride & Liothyronine were worked on at the site during 2013.

There were no changes implemented to the facility during 2013.

1.3 Environmental Policy

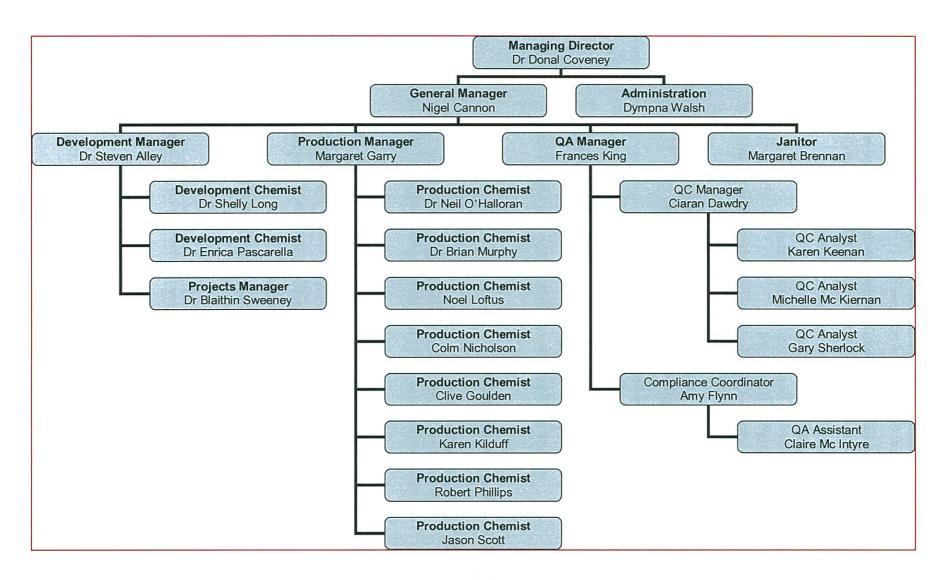
At TopChem Pharmaceuticals we continually assess all the environmental impacts associated with our activities. We aim to improve our management of the environment on a continuous basis. It is essential that all employees, visitors and contractors abide by all aspects of the environmental policy.

1.4 Environmental Management of the Company / Company Structure

Responsibility for the Environmental Management System at TopChem Pharmaceuticals currently falls under the remit of the General Manager. Under this present arrangement, the Production Manager acts as the deputy EHS Officer.

Environmental Management at the facility is co-ordinated through monthly EHS meetings, which involve participation from each of the core functions. i.e. Production, Quality and Development.

Management and Reporting Structure:



Page 5 of 42

Each department has appointed an EHS representative so that issues identified at a departmental level can be addressed in a timely manner.

There is an EHS Storyboard installed on the first floor overlooking the Reception area. This is updated weekly and displays the following information;

- Metric Incidents and Accident Reporting,
- Metric Corrective Actions,
- Metric Housekeeping Inspections,
- Metric Hours Lost,
- Metrics EHS Meetings, Fire Alarm checks, Fire Drills,
- EHS Goals and Objectives

There is also an Energy Management Notice Board installed, which is updated monthly and displays the following information;

- Energy Management Policy
- Green Team members
- Metric Electricity usage on site
- Metric Electricity Usage expressed per Employee
- Awareness information
- Energy Management / Green Goals and Objectives

2.0 Resource Information

2.1 Resource Consumption

This section covers details on Electricity usage and Raw Materials consumed in our Production Laboratory for the review period January 1st 2013 to December 31st 2013.

2.1.1 Electricity

Electricity is the only source of energy used at TopChem Pharmaceuticals.

Bord Gais is the provider for electricity in Units 2 - 4 at the site.

Unit 1 is serviced by Electric Ireland.

In summary the Electricity Units consumed at the facility for the period under review are as documented in Table 1 overleaf;

Table 1:

Provider	Unit#	Consumption period	Usage (KWH)	Comment	
Electric Ireland	1	19/1/13 – 20/1/14	1011	27% increase YoY	
Bord Gais	2	20/1/13 – 21/1/14	870	14% increase YoY	
Bord Gais	3 & 4	9/1/13 – 9/1/14	197,950	8% increase YoY	

TopChem Pharmaceuticals is currently leasing a block of 4 units in the Ballymote Business Park.

Units 3 & 4 are used for Manufacturing and all related support functions for the business.

Unit 1 & Unit 2 are used for storage purposes only.

The following change resulted in increased electricity usage in 2013;

• 120 Hour working week introduced in the Production Laboratory in July 2012 was also operational throughout 2013, hence the 8% increase in electricity usage in this unit compared with 2012.

2.1.2 Raw Materials

Details of Process related Raw Materials, Intermediates, Products used \prime generated at the site during 2013 are as follows;

Table 2:

Product	Material	2013 Process Usage
Benzyl Benzoate	Benzyl Benzoate (Crude)	63L
	Acetone	126Kg
	Benzyl Benzoate (Product)	44Kg
Bretylium	2-Bromobenzyl Bromide	145.2Kg
Tostylate	Hydrochloric Acid (37%)	145.2L
	Methyl Butyl Ether (MTBE)	396L
	Purified Water	96.8L
	Ethyl-p-Toluenesulphonate	180.6Kg
	Acetone GPR Grade	2904.6L
	Ethyl Acetate	3872.8L
	Sodium Hydroxide 20%	178.5Kg
	Dimethylamine Solution 40%	261.3Kg
	Bretylium Tosylate (Product)	163.2Kg
Thiamine	Purified Water	366L
Hydrochloride	Thiamine Hydrochloride USP	427Kg
-	Isopropyl Alcohol	2562L
	Thiamine Hydrochloride (Product)	371.5Kg
Ethacrynic Acid	Hydrochloric Acid (37%)	38.8L
	Toluene	270L
	Purified Water	587.6L
	Ethyl Acetate	551.4L
	Dimethylamine Hydrochloride	16.3Kg
	tert-Butyl methyl ether	162L
	Acetic Acid	57.5L
	Paraformaldehyde	6.7Kg
	Isopropyl Alcohol	78L
	(4-butanoyl-2,3 Dichlorophenoxy) acetic acid	57.5Kg
	Potassium Pyrophosphate	72Kg
	Ethacrynic Acid (Product)	9.4Kg

Table 2: continued

Product	Material	2013 Process Usage
Piribedil	1-PP	21.6Kg
	2-CP	11.8Kg
	Potassium Carbonate	27.1Kg
	Xylenes	100.8L
	Isopropyl Alcohol	141L
	Water	129.6L
	Piribedil (Product)	13.9Kg
Tolcapone	Hydrochloric Acid	33.9L
	Purified Water	286L
	2-CP Potassium Carbonate Xylenes Isopropyl Alcohol Water Piribedil (Product) Hydrochloric Acid	61L
		89.7L
	Nitric Acid	8.25L
	Aluminium Trichloride	11.43Kg
ads the farm of the column	Pyridine	23.4L
	TOL-4	26.4Kg
	Ethanol GPR	255.6L
	Tolcapone (Product)	18.2Kg

2.2 Waste

There are four types of wastes generated at TopChem Pharmaceuticals which are as follows;

- Domestic Waste
- Mixed Recyclable Waste
- · Hazardous Solid Waste
- Hazardous Liquid Waste

For Domestic & Mixed Recyclable waste, Barna Waste Disposal & Recycling is the approved waste disposal contractor.

For Hazardous waste (Solid & Liquid), Soltec Ireland Limited and SRCL, trading as ECO Safe Systems are the approved waste disposal contractors.

The following is a summary of the quantity of waste collected from TopChem Pharmaceuticals during the review period Jan 2013 – Dec 2013.

Table 3:

Waste Type	Quantity
Domestic Waste	0.56 Tonnes
Mixed Recyclables	2.00 Tonnes

The mixed recyclables collected by Barna Waste Disposal & Recycling are delivered to its facility in Carrowbrowne, Galway. Mixed recyclables are fed into their picking station where they are sorted into their individual waste fractions by a combination of machine (called a ballistic separator) and manual picking. Once separated materials are baled, stored and transferred off site to approved brokers for recycling.

Note:

- 1100Liter Mixed Recyclable bin = 80kg (this is the standard weight used by Barna Waste Disposal & Recycling in 2013 as they have no weighing system installed on their lorries as yet).
- The 240 Litre Domestic Bins is weighed by Barna Waste Disposal & Recycling.

The domestic waste quantity has decreased from 0.66 Tonnes in 2012 to 0.56 Tonnes in 2013 i.e. 15% decrease. The volume of mixed recyclables generated from the facility decreased from 2.16 Tonnes in 2012 to 2.00 Tonnes in 2013 which is reflective of a decrease in Production output.

Hazardous Waste Disposal 2013:

Table 4:

Solid Waste: (Total 2182Kgs)

Month	Date	Provider	C1 Number	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-site	Liquid waste Secondary Recovery location	Use for Residue waste
Mar-13	05/03/2013	ECO Safe Systems	SO000739	110	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Mar-13	05/03/2013	ECO Safe Systems	SO000739	109	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Mar-13	05/03/2013	ECO Safe Systems	SO000739	122	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
May-13	17/05/2013	ECO Safe Systems	SO001048	115	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
May-13	17/05/2013	ECO Safe Systems	SO001048	119	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
May-13	17/05/2013	ECO Safe Systems	SO001048	126	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel

Month	Date	Provider	C1 Number	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-site	Liquid waste Secondary Recovery location	Use for Residue waste
May-13	17/05/2013	ECO Safe Systems	SO001048	72	Pallet	Contaminated Glassware	Glassware	IE 314830	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
May-13	17/05/2013	ECO Safe Systems	SO001048	64	Pallet	Contaminated Steel & Plastic Drums	Waste Packaging	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
May-13	17/05/2013	ECO Safe Systems	SO001048	116	Pallet	Contaminated Steel & Plastic Drums	Waste Packaging	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
May-13	17/05/2013	ECO Safe Systems	SO001048	136	Pallet	Contaminated Steel & Plastic Drums	Waste Packaging	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Jul-13	23/07/2013	ECO Safe Systems	SO001070	143	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Jul-13	23/07/2013	ECO Safe Systems	SO001070	145	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Jul-13	23/07/2013	ECO Safe Systems	SO001070	137	Pallet	Contaminated Steel & Plastic Drums	Waste Packaging	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel

Month	Date	Provider	C1 Number	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-site	Liquid waste Secondary Recovery location	Use for Residue waste
Jul-13	23/07/2013	ECO Safe Systems	SO001070	56	Pallet	Contaminated Steel & Plastic Drums	Waste Packaging	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Oct-13	24/10/2013	ECO Safe Systems	SO001363	142	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Oct-13	24/10/2013	ECO Safe Systems	SO001363	134	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Oct-13	24/10/2013	ECO Safe Systems	SO001363	128	1000	Solid Flammable Waste	Toluene contaminated rags	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Oct-13	24/10/2013	ECO Safe Systems	SO001363	104	Pallet	Contaminated Steel & Plastic Drums	Waste Packaging	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Oct-13	24/10/2013	ECO Safe Systems	SO001363	104	Pallet	Contaminated Steel & Plastic Drums	Waste Packaging	IE 314888	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel

Table 5:
Liquid Waste: (Total 12,682Kgs)

Month	Date	Provider	C1 Number Pickup	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-Site	Solid waste Secondary Recovery location	Use for Residue waste
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	200	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	200	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	200	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	200	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel

Month	Date	Provider	C1 Number Pickup	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-Site	Solid waste Secondary Recovery location	Use for Residue waste
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	209	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	209	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	209	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	209	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	207	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel

Month	Date	Provider	C1 Number Pickup	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-Site	Solid waste Secondary Recovery location	Use for Residue waste
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	207	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	208	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	207	210	Solvent Liquid Waste	Non Chlorinated	IE 314511	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	201	210	Water	Basic Aqueous	IE 314829	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	201	210	Water	Basic Aqueous	IE 314829	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	201	210	Water	Basic Aqueous	IE 314829	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel

Month	Date	Provider	C1 Number Pickup	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-Site	Solid waste Secondary Recovery location	Use for Residue waste
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	201	210	Water	Basic Aqueous	IE 314829	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Mar-13	05/03/20 13	ECO Safe Systems	SO000739	201	210	Water	Basic Aqueous	IE 314829	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	200	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	200	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	200	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	202	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	202	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel

Month	Date	Provider	C1 Number Pickup	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-Site	Solid waste Secondary Recovery location	Use for Residue waste
May-13	17/05/20 13	ECO Safe Systems	SO001048	202	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	202	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	205	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	206	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	206	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	206	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel

Month	Date	Provider	C1 Number Pickup	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-Site	Solid waste Secondary Recovery location	Use for Residue waste
May-13	17/05/20 13	ECO Safe Systems	SO001048	220	210	Water	Basic Aqueous	IE 314829	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	220	210	Water	Basic Aqueous	IE 314829	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	238	210	Chlorinated	Chlorinated	IE 314827	Umweltservice Lindenschmidt KG, Krombacher Strabe 42 - 46, 57223. Kreuztal - Krombach Germany. License Number is E97095037	Secondary Fuel
May-13	17/05/20 13	ECO Safe Systems	SO001048	220	210	Water	Basic Aqueous	IE 314829	Recyfuel B4480 Zoning, Industriel D'Ehein, Engis, Belguim. License D3200 / 61080 / RGPED / 2008 / 2 / AP	Secondary Fuel
Jul-13	23/07/20 13	ECO Safe Systems	SO001070	200	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Jul-13	23/07/20 13	ECO Safe Systems	SO001070	200	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Jul-13	23/07/20 13	ECO Safe Systems	SO001070	200	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel

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Jul-13	23/07/20 13	ECO Safe Systems	SO001070	200	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Jul-13	23/07/20 13	ECO Safe Systems	SO001070	196	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Jul-13	23/07/20 13	ECO Safe Systems	SO001070	196	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
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Month	Date	Provider	C1 Number Pickup	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-Site	Solid waste Secondary Recovery location	Use for Residue waste
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Jul-13	23/07/20 13	ECO Safe Systems	SO001070	194	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Jul-13	23/07/20 13	ECO Safe Systems	SO001070	223	210	Water	Basic Aqueous	IE 3154811	SAVA Gmbh & Co KG, Niederlassung, Rostock, Germany. Permit Number 12HRO03010	Secondary Fuel
Jul-13	23/07/20 13	ECO Safe Systems	SO001070	29	25	Hydrochloric Acid	Acidic	IE 314827	Umweltservice Lindenschmidt KG, Krombacher Strabe 42 - 46, 57223. Kreuztal - Krombach Germany. License Number is E97095037	Secondary Fuel
Jul-13	23/07/20 13	ECO Safe Systems	SO001070	29	25	Hydrochloric Acid	Acidic	IE 314827	Umweltservice Lindenschmidt KG, Krombacher Strabe 42 - 46, 57223. Kreuztal - Krombach Germany. License Number is E97095037	Secondary Fuel
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Jul-13	23/07/20 13	ECO Safe Systems	SO001070	28	25	Hydrochloric Acid	Acidic	IE 314827	Umweltservice Lindenschmidt KG, Krombacher Strabe 42 - 46, 57223. Kreuztal - Krombach Germany. License Number is E97095037	Secondary Fuel

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Jul-13	03/07/20 13	Soltec Ireland Ltd	SO001166	200	200	Solvent Liquid Waste	Non Chlorinated	Not Applicabl e	Soltec Ireland Ltd, Zone A Mullingar Business Park, Mullingar, Co Westmeath. WO115-01. CW058	Paint Thinners
Jul-13	03/07/20 13	Soltec Ireland Ltd	SO001166	200	200	Solvent Liquid Waste	Non Chlorinated	Not Applicabl e	Soltec Ireland Ltd, Zone A Mullingar Business Park, Mullingar, Co Westmeath. WO115-01. CW058	Paint Thinners
Jul-13	03/07/20 13	Soltec Ireland Ltd	SO001166	200	200	Solvent Liquid Waste	Non Chlorinated	Not Applicabl e	Soltec Ireland Ltd, Zone A Mullingar Business Park, Mullingar, Co Westmeath. WO115-01. CW058	Paint Thinners

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Jul-13	03/07/20	Soltec Ireland Ltd	SO001166	200	200	Water	Basic Aqueous	WH00150 8	Afvalstoffen Terminal Moerdijk B.V. Industrrieterrein, Seaport M 152, Vlasweg 12, NL 4752 PW Moerdijk, The Netherlands.	Secondary Fuel
Jul-13	03/07/20 13	Soltec Ireland Ltd	SO001166	200	200	Water	Basic Aqueous	WH00150 9	Afvalstoffen Terminal Moerdijk B.V. Industrrieterrein, Seaport M 152, Vlasweg 12, NL 4752 PW Moerdijk, The Netherlands.	Secondary Fuel
Oct-13	24/10/20 13	ECO Safe Systems	SO001363	201	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Oct-13	24/10/20 13	ECO Safe Systems	SO001363	200	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
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Oct-13	24/10/20 13	ECO Safe Systems	SO001363	210	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel

Month	Date	Provider	C1 Number Pickup	Quantity (Kgs)	Quantity (L)	Chemical Composition of Waste	Waste Stream	C1 Number Off-Site	Solid waste Secondary Recovery location	Use for Residue waste
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Oct-13	24/10/20 13	ECO Safe Systems	SO001363	197	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
Oct-13	24/10/20 13	ECO Safe Systems	SO001363	197	210	Solvent Liquid Waste	Non Chlorinated	IE 315164	Avanti Environmental Group Ltd, Avanti Treatment & Transfer Station, Charley Wood Road, Knowsley Ind Est, Liverpool, Merseyside L33 7SG.	Secondary Fuel
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Oct-13	24/10/20 13	ECO Safe Systems	SO001363	230	210	Water	Basic Aqueous	IE 315481	SAVA Gmbh & Co KG, Niederlassung, Rostock, Germany. Permit Number 12HRO03010	Secondary Fuel
Oct-13	24/10/20 13	ECO Safe Systems	SO001363	230	210	Water	Basic Aqueous	IE 315481	SAVA Gmbh & Co KG, Niederlassung, Rostock, Germany. Permit Number 12HRO03010	Secondary Fuel

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Oct-13	24/10/20 13	ECO Safe Systems	SO001363	230	210	Water	Basic Aqueous	IE 315481	SAVA Gmbh & Co KG, Niederlassung, Rostock, Germany. Permit Number 12HRO03010	Secondary Fuel
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2012 & 2013 Hazardous Waste Disposal Comparison:

Table 6:

Waste Stream	2012 Qty	2013 Qty	Variance	Comment
Solid Waste	1781 Kgs	1393Kgs	-21.5%	Related to no PGX production in 2013
Contaminated Glassware	161Kgs	72Kgs	-55.3%	
Contaminated Steel & Plastic Drums	0kgs	668kgs	+100%	New waste stream
Non Chlorinated Waste	8000 Litres	11090 Litres	+38.6%	Associated with the nature of 2013 production processes
Chlorinated Waste	1200 Litres	210 Litres	-82.5%	Related to no PGX production in 2013
Basic Aqueous Waste	2400 Litres	3340 Litres	+39.2%	Associated with the nature of 2013 production processes
Mercury Waste	0 Litres	0 Litres	-	No change Year on Year
Acidic Waste	0 Litres	225 Litres	+100%	Historically acidic waste was neutralised and discarded to basic aqueous waste stream

2.3 Energy & Water Usage

Electricity is the only source of energy used in TopChem Pharmaceuticals.

Refer to section 2.1 for consumption details for the period under review.

As regards Water Usage at the site, any water required in the Production Process is purchased as a raw material. All remaining water requirements at the facility are for domestic purposes only, i.e. Toilets, Kitchen. Water is also used in the Production Laboratory for equipment cooling but this is non-process contacting.

During the period under review TopChem Pharmaceuticals purchased 8000L of Purified Water from Ultra-Pure Laboratories, Foxford, Co Mayo for use in the Production Process.

2.4 Environmental Incidents & Complaints

During the review period January 1st 2013 to December 31st 2013, no environmental complaints were received by TopChem Pharmaceuticals Limited.

There were no incidents at the TopChem Pharmaceuticals site which required reporting to the Environmental Protection Agency.

There was one Environmental incident reported within TopChem Pharmaceuticals during the period Jan 1st 2013 – Dec 31st 2013 where Acidic waste was added to a Basic Waste Stream in error. The pH was adjusted and there was no impact on the environment.

3.0 Environmental Management of Activity

3.1 Environmental Objectives & Targets

Table 7 below is an update on each of the Objectives agreed for the period Jan 1^{st} 2013 – Dec 31^{st} 2013.

Table 7:

Objective	Status
Install system to collect rain water for servicing Toilets	Not completed. On the list of tasks to be completed in 2014.
Assess the economic and environmental benefits of a continuous supply of hot water in the kitchen.	Assessment complete. Economic output outweighs benefit.
Install light sensors in the Employee Entrance, landing over reception, main office in admin, Visitor toilet and Units 1 & 2.	To be completed in 2014
Assess if the photocopier / scanner / printer / fax can revert to Hibernate mode when not in use.	Photocopier / scanner / printer / fax reverts to 'hibernate' mode when not in use.
Implement 'red card' system which acts as a reminder for employees to switch their computer to hibernate mode when not required.	'Red Card' system implemented which is located beside each computer user.
Implement Paper Reduction Initiative.	Documents printed on double sides, Standard Operating Procedures only allocated to necessary areas. Projector used at meetings to review documents instead of printing multiple copies of documents.

3.2 Environmental Management Report

The key environmental objective for the company in 2013 was to continue to track all conditions in the company's IPPC License (P0828-01) and ensure that the high level of environmental compliance achieved in previous years was maintained.

With this in mind the following is an overview of the environmental accomplishments for the facility during 2013,

- The company received no environmental complaints during the Year.
- Approval received from the EPA for Tolcapone (25/2/13), Piribedil (20/5/13), Myristyl Gamma Picolinium Chloride (22/10/13), Liothyronine Hydrochloride (19/12/13) and Selenious Acid (20/12/13).
- All mobile bunds used at TopChem Pharmaceuticals were inspected on a regular basis and all were found to be satisfactory.
- The bund in the Chemical Store was certified on the 19/7/13 by Chemstore, Clondrinagh Industrial Estate, Ennis Road, Limerick. The water used in the certification process was collected by Thornton's Tanker Services, Unit 53B, Parkwest Business Park, Dublin 10 and sent for treatment.
- An Environmental Noise Survey was completed by Allegro Acoustics Ltd, Unit 2A Riverside, Tallaght Business Park, Tallaght, Dublin 24, ref Report DC 1216-02 on 4th July 2013. The noise monitoring was undertaken to verify compliance or otherwise with the Noise Emission Limits as in accordance with the guidelines as set out in guidance note for noise. It was observed that the specific noise level from the facility at all measurement locations was significantly below the relevant limits for day, evening and night time, hence no non-conformances were noted.
- The company's EHS Goals & Objectives and associated key performance indicators were updated on a weekly basis and results posted on a dedicated Environmental Health & Safety notice board.
- On site environmental communications were maintained with employees through planned EHS Meetings.
- The company continued to use approved waste disposal contractors for disposal of hazardous, domestic and recyclable waste streams generated on site.
- The company continued to facilitate EHS training on site in areas such as basic chemical awareness, use of spill kits, manual handling and fire safety training.
- Monthly Housekeeping Inspections were conducted on site.

Overall, the company continued to display high levels of control & employee awareness on environmental health and safety matters during 2013.

3.3 Environmental Management Proposals for 2014

Table 8:

Objective	Responsibility	How objective will be achieved	Timeframe
Install system to collect rain water for servicing Toilets	EHS Officer	Identify Service Contractor and implement accordingly	Q1- Q4 2014
Review Lighting across the facility with a view to reducing costs	EHS Officer	Reduce the # of bulbs per fitting	Q1 – Q4 2014
Install light sensors in the employee entrance, landing over reception, main office in admin, Visitor Toilet, Unit 1 & Unit 2.	EHS Officer	Identify Service Contractor and implement accordingly	Q2 2014
New Product Introductions to review scope for waste reduction	Project Team	Review by Project team during Development	Q1 – Q4 2014
Continue to implement Paper Reduction Initiatives	QA	New process for annual and biennial document review whereby no reprint required	Q1 – Q4 2014
Assess the viability and benefit of introduction of a "bike to work scheme"	QA	Gather information on process and level of interest within the company	Q1 – Q4 2014

4.0 Financial Provision

TCP Ltd make allowances for financial provision as required under Condition No. 12 of licence no. P0828-01. Details of same can be referenced in the ELRA Report submitted to the Agency in March 2014.

5.0 Licence Specific Reports

5.1 PRTR

Attached are the following AER / PRTR files which were submitted to the Agency in March 2014.

- Facility ID and Activities sheet
- Releases to Air nothing reported given TCP has no emissions to Air other than minor fugitive emissions.
- Releases to Water Nothing reported given TCP has no emissions to Water.
- Releases to Waste Water or Sewer Nothing recorded given TCP has no emissions to sewer other than wastes from Toilet and kitchen facilities and purified water from heating and cooling baths which are non-product contacting.
- Releases to Land Nothing reported given TCP has no emissions to Land.
- Treatment of Transfers of Waste

5.2 Residual Management Plan

Details can be referenced in the Residual Management Plan submitted to the Agency in March 2014.

5.3 Solvent Management Plan

As per condition 6.11.1, TCP must report on the use of solvents per each calendar Year as part of its AER.

As advised in the Solvent Management Plan submitted to the Agency in March 2014, due to the scale of the operation at TopChem Pharmaceuticals, only small volumes of solvents are used, hence there is no requirement for fugitive emissions monitoring or a solvent reduction plan.

The procurement, disposition and disposal of solvents are monitored on an on-going basis under the auspices of our internal quality control and environmental health and safety systems.

The Table overleaf summarises Solvents consumed at TCP for the period January 1st 2013 – December 31st 2013.

Solvents & Water Usage in litres at TCP from January 1st 2013 to December 31st 2013

Table 9:

Month	Acetone	Methanol	MeCN	Etoac	Hexane	Heptane	THF	DCM	MTBE	EtOH	Toluene	IPA	Water*
Stock carried													
over 2012 (L)	257.5	110	15	12.5	4	5	10	42.5	255	22.5	27.5	252.5	1015
Solvents	ordered 20	013 in Litres	(L)					to the state of th					
Jan-13	1200	220	30	575	10°	5			575		100	Court Court	
Feb-13	490	20	25				20						1600
Mar-13	40			500			20			50		600	1600
Apr-13	500	15	35						35	210	110	10	
May-13	750	100										600	
Jun-13	150	50	50	357.5							1.0	7.5	1600
Jul-13	165	100	- p. 18 - p. 18 - k	275			100	ily . Ty				840	1600
Aug-13	640	40	40	275						10			
Sep-13	230	100	30	150				48	50		50		
Oct-13	340		40	50									1600
Nov-13	320	100	40	Mary Mary and American			100					600	
Dec-13												800	
Total Ordered (L)	4825	745	290	2182.5	0	5	40	0	660	270	260	3457.5	8000
Total In-house (L)	5082.5	855	305	2195	4	10	50	42.5	915	292.5	287.5	3710	9015
Remaining Stocks End 2013 (L)	475	94.5	35	10.5	4	10	10	5	56	76	40	835	220
Total Usage (L)	4607.5	760.5	270	2184.5	0	0	40	37.5	859	216.5	247.5	2875	8795

MeCN = Acetonitrile IPA = Isopropyl Alcohol DCM = Dichloromethane EtoAC = Ethyl Acetate EtOH = Ethanol

THF = Tetrahydrofuran MTBE = Methyl- tert-Butyl- Ether

Table 10 below provides an overview of the total solvents procured by TCP during the review period January 1st 2013 – December 31st 2013.

It also illustrates the opening and closing balances on site for 2013 together with new waste produced, shipped and a volume balancing result.

Table 10:

Item	Unit	Quantity
Solvent Usage	Litres	12,098
Opening Waste balance Jan 2013		740
Non Chlorinated solvent waste -		555
Chlorinated solvent Waste -	Litman	21
Basic Aqueous –	Litres	164
Acidic –		0
Mercury -		0
Net waste Recorded Jan 2013 – Dec 2013		15841.5
Non Chlorinated solvent waste -	Y :4	11645
Chlorinated solvent Waste -	Litres	216
Basic Aqueous –		3765.5
Acidic –		215
Mercury -	-	0
Closing Waste balance Dec 2013		2312.5
Non Chlorinated solvent waste -	VALUA ANTINO DE LA CALLA DE LA	1498
Chlorinated solvent Waste -	Litres	63.5
Basic Aqueous –	Litres	751
Acidic –		O
Mercury -		0
Waste shipped Jan 2013 – Dec 2013		14865
Non Chlorinated solvent waste -		11090
Chlorinated solvent Waste -	Litres	210
Basic Aqueous –		3340
Acidic –	1	225
Mercury -		0
Volume Balancing Result		
(Solvent Usage V's Waste Shipped & Closing	%	142%
Balance at Year End)*		

In summary, the volume of waste solvent produced exceeded the volume of solvent purchased by 42%. The reason for this is that a number of waste streams are diluted with purified water which is occasionally used as a manufacturing material.

8795L of Purified water was consumed within TCP in 2013. However, Purified water is not included in the overall solvent usage. Approximately 40% of the material purchased is used as a manufacturing material and in analytical testing in our QC laboratory. The remainder is consumed in cooling and heating baths.

5.4 <u>ELRA:</u>

The ELRA Report was updated and submitted to the Agency in March 2014. During 2013, the following changes, as previously advised to the Agency, were implemented on site;

- Five new products were introduced to the site in 2013 namely Tolcapone, Piribedil, Myristyl Gamma Picolinium Chloride, Liothyrionine Hydrochloride and Selenious Acid.
- Of the five products, only two were actually implemented in production Tolcapone & Piribedil.



[PRTR# P0528] Fability Name | TopChem Pharmaceutrc#s Limited [Frehame P0628, 2013 xts | Return Year | 2012.]

Guidance to completing the PRTR workbook

AER Returns Workbook

Varsion 1 1 19

REFERENCE YEAR	2013
FACILITY IDENTIFICATION	
Parent Company Name	TopChem Pharmaceuticals Limited
	TopChem Pharmaceuticals Limited
PRTR Identification Number	
Licence Number	P0828-01
Waste or IPPC Classes of Activity	
No.	class_name
F 40	The use of a chemical or biological process for the production of basis pharmaceutical products.
5.10	pnarmaceutical products.
Address 1	Ballymote Business Park
	Carrownanty
	Ballymote
	County Sligo
	Sligo
Country	Ireland
Coordinates of Location	
River Basin District	
NACE Code	
	Manufacture of pharmaceutical preparations
AER Returns Contact Name	
AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	620.
Production Volume Units	Kq
Number of Installations	
Number of Operating Hours in Year	600
Number of Employees	
User Feedback/Comments	
Web Address	www.topchempharma.com
PRTR CLASS ACTIVITIES	
	Activity Name
	last-lasticas vainas abandad au higherinal areases for the production
1/0)	
2. PRTR CLASS ACTIVITIES Activity Number ((e) 3. SOLVENTS REGULATIONS (S.I. No. 543 of 20 Is it applicable	Installations using a chemical or biological process for the product on an industrial scale of basic pharmaceutical products
Have you been granted an exemption '	ONU
If applicable which activity class applies (as pe Schedule 2 of the regulations)	
Is the reduction scheme compliance route being	
used	? Not applicable

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Do you import/accept waste onto your site for onsite treatment (either recovery or disposal activities) Guidance on waste imported/accepted onto site

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

AND THE RESERVE OF THE PARTY OF	RELEASES TO AIR			Please enter all quantities in this section in KGs						
	POLLUTANT			METH	OD	QUANTITY				
STATE OF THE LIFE			Method Used					And the second second		
No.	Annex II	Namo	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
CONTROL CONCERCION NUMBERO	STATE OF THE OWNER, WHEN THE PARTY OF THE OWNER, WHEN THE PARTY OF THE OWNER, WHEN THE OWNER, WHEN THE OWNER,			NETTER THE PARTY OF THE PARTY O		0.0		0.0	0.0	

^{*}Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

AND RESIDENCE OF THE PARTY OF T	RELEASES TO AIR	Water Co	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Manager of the state of the sta	Please enter all quantities	in this section in KC	S CONTRACTOR OF STREET	
POL	POLLUTANT			IETHOD	QUANTITY			
		Section 1997	Method Used		AND DESCRIPTION OF THE PARTY OF		The same of the sa	Section 1997 Control of
No. Annex II	Narno	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
THE RESIDENCE OF THE PARTY OF T					0.0		0.0	0.0

^{*}Select a row by double-clicking on the Pollutant Name (Column B) then elick the delate button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

	RELEASES TO AIR	#125 X 3530	STATE OF THE PARTY	元文 。	Please enter all quantities	in this section in KG:	Section 2012 Control Section	desired the publication
PC	POLLUTANT			METHOD			QUANTITY	A STATE OF THE PARTY OF THE PAR
	THE RESIDENCE OF THE PROPERTY		Method Used		AND DESCRIPTION OF THE PERSON.			
Pollutant No.	Namo	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
The second secon	A STATE OF THE STA				0.0		0.0	0.0

*Select a row by double-clicking on the Poliulant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventiory on Greenhouse Gases, landfill operators are requested to provide aummany data on landfill gas (Michane) faces or unitised on their facilities to accompany the Squees for total methane panearant. Operative should only report thee Net methane (FAM) emissions for the environment under T total § KGry for Section A. Sector specific PRTR politizarios above. Please compiles the lable below.

TopChem Pharmaceuticals Limited

Landfill; Please enter summary data on the quantities of methane flared and / or utilised

quantities of methane flared and / or utilised	17.5194.04.51		Meth	od Used		
	T (Total) kg/Year	MICIE	Method Code	Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methans generation (as per						
site model)	0.0				NA	
Methane flared	0.0			V		(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section				Walker	The state of the s	
(evoda A	0.0				N/A	

28

Page 37 of 42

Page 38 of 42

	RELEASES TO WATERS	SECTION SECTION			Please enter all quantities	in this section in KGs	gastin realisates and	antition of the comment
POLL	UTANT	ALC: NO	Spilling Street		the arrivan a mineral		QUANTITY	
			Mark and Address of	Method Used	AND RESIDENCE OF THE PARTY OF T			
No. Annex II	Name	MC/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
		BANKS MEMORINS	COMPRESSOR STREET		0.0	0.0	0.0	0.0

" Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

	RELEASES TO WATERS	or of the contract	STREET, STREET,	TO NOTE AND ADDRESS OF THE	Please enter all quantities	in this section in KG	· Destruction of the Control of the	
POL	UTANT	200	STATE OF THE PARTY		is a facility of the section of	12 day - 2	QUANTITY	
		EBSCHARG	STATE STATE OF	Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
AND DESCRIPTION OF THE PARTY OF		- BERTHARDE	ELEGION HUNDRING	CASSIONAL PROPERTY OF THE PROP	0.0	0	0.0	0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

	RELEASES TO WATERS Plea						Please enter all quantities in this section in KGs					
P	DLLUTANT		A STATE OF THE PARTY OF THE PAR		the water that the water the whole	diane.	See to the second second	QUANTITY				
		222		Method Used		1000						
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T	(Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year			
				Call and the Sales of the Control of		0.0	0,	0.0	0.			

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

SECTION A - PRTR POLIUTANTS

	OFFSITE TRANSFER OF POLLUTANTS DESTINED	FOR WASTE-WATER TRE	ATMENT OR SEWER	Please enter all quantiti	es in this section in KG		A STATE OF THE PARTY OF THE PAR		
	POLLUTANT	ENGLISHED BY	METHOD		QUANTITY				
			Method Used			TOTAL THE PROPERTY OF	STATE OF THE PARTY		
No Annex II	Name	M/C/E	Method Code Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
				THE CONTRACTOR OF THE PARTY OF	0.0	0.0			

* Select a row by double-clicking on the Pollulant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

BOSSES AND STREET, ST.	OFFSITE TRANSFER OF POLLUTANTS DESTINE	Please enter all quantities in this section in KGs						
THE RESIDENCE OF SERVICE	POLLUTANT	the state of the state of the state of	Name and Address of the Owner, where the	ETHOD	QUANTITY			
			STATE OF THE STATE	Method Used				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN		STATE OF THE PARTY	PROPERTY AND SERVICES	PRINCIPLE OF A SHOOT PARKET OF THE PARKET OF	0.0	Chromos Company and Company	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Page 39 of 42

SECTION A: PRTR POLLUTANTS

SECTION A: FRIR FOLESTA		S TO LAND		Please enter all quant	Please enter all quantities in this section in KGs			
MUNICIPAL AND STREET	POLLUTANT	CHARLES CONTROL	METHOD	Photo and the state of the stat	QUANTITY			
			Method Used			West of the Management of the Control of the Contro		
No. Annex II	Name	M/C/E Mothox	Gode Designation or Descripti	emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year		
Description of the Control of the Co	A STATE OF THE PARTY OF THE PAR	ALTERNATION DESCRIPTION OF THE PROPERTY OF THE		COLUMN TO THE PARTY OF THE PART	0.0	0.0		

^{*} Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B: REMAINING POLLUTANT EMISSIONS (as required in your Licence)

	RELEA	Please enter all quantities in this section in KGs				
ALCOHOLD BURNESS STATES	POLLUTANT		METHOD	as a second	QUANTITY	
THE RESERVE THE PROPERTY OF THE PARTY OF THE				The second second second		
Pollutant No.	Name	Mellin Mellin	d Code Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
		CONTROL OF THE PARTY OF THE PAR			0.0	0.0

^{*} Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Page 40 of 42

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE 1991 Set 1,1903 (February Transfer) (1) John College (February Transfer)

			Quantity (Tonnes per Year)		Waste		Method Used		Hax Weste: Name and Licence/Permit No of Next Destination Facility Name and Licence/Permit No of Recover/Disposer	Haz Wasie : Address of Next Destination Facility Non Haz Wasse: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination Le, Final Recovery Disposal Site (HAZARDOUS WASTE ONLY)
Transfer Destination	European Waste	Hazardous		Description of Waste	Treatment Operation	M/C/E	Method Used	Location of Treatment				
					4,	***************************************				Alexander State of the State of	Recyfuel B4480	
											Zoning.D3200 / 61080 / RGPED / 2008 / 2 /	
				absorbents, filter materials (including oil filters not otherwise specified), wiping cloths,					ECO Sale Systems	Unit 1A.Alied Industrial	AP,Recyfuel B4480	Recyfuel B4480
				protective clothing contaminated by					Limited,54-2 WCP-DC-09-	Estate Kylemore Road	Zoning,Industriel	Zoning,Industriel
To Other Countries	15.02.02	Yes	1 303	dangerous substances	R1	M	Weighed	Abroad	1203-01			D'Ehein, Engis, Beigium
TO COMO COUNTRIES	1002 02	103	1.000	ourger our outstances							Recyfuel B4480	Water to the same of the same of
											Zoning,D3200 / 61080 /	
											RGPED / 2008 / 2 /	
									ECO Sale Systems	Unit 1A, Alied Industrial	AP,Recyfuel B4480	Recyfuel B4480
				packaging containing residues of or	120				Limited,54-2 WCP-DC-09-	Estate,Kylemore Road Ballyfermot,Dublin 10,Ireland	Zoning,Industriel	Zoning,Industriel D'Ehein,Engis,Belgium
To Other Countries	15 01 10	Yes	0.717	contaminated by dangerous substances	R1	M	Weighed	Abroad	1203-01	Bailylermot.Dubin 10,ireland	Recyfuel B4480	D Elletti, Eligis Degiulit
											Zoning,D3200 / 61080 /	
											RGPED/2008/2/	
									ECO Safe Systems	Unit 1A, Allied Industrial	AP,Recyfuel B4480	Recyfuel B4480
				solid wastes containing dangerous					Limited,54-2 WCP-DC-09-	Estate,Kylemore Road	Zoning,Industriel	Zoning,Industriel
To Other Countries	07 05 13	Yes	0.072	substances	R1	M	Weighed	Abroad	1203-01	Bailyfermot, Dublin 10, Ireland	D'Ehein, Engis, ., Belgium	D'Ehein.EngisBelgium
											Advanti Environmental Group	
											Ltd.EPR/XP3038HX,Charley	Charley Wood
									ECO Safe Systems	Unit 1A Allied Industrial	Wood Road Knowsley	Road,Knowsley Industrial
				other organic solvents, washing liquids and					Limited,54-2 WCP-DC-09-	Estate,Kylemore Road	Industrial Park, Merseyside	Park Merseyside L33
To Other Countries	07.05.04	Yes	9.912	mother liquors	RI	м	Weighed	Abroad	1203-01	Ballyfermot, Dublin 10, Ireland		7SG, United Kingdom
To Other Countries	0,0304	103	3.312	The second secon	***		rreigned					
											Umweltservice	
											Lindenschmidt KG,E97095037,Umweitservi	Umweltservice
											ce Lindenschmidt	Lindenschmidt
									ECO Safe Systems	Unit 1A Allied Industrial		KG.Krombacher Strabe 42 -
									Limited,54-2 WCP-DC-09-	Estate,Kylemore Road	46.57223	46.57223
To Other Countries	07.05.02	Yes	0.220	organic halogenated solvents, washing liquids and mother liquors	R1	М	Weighed	Abroad	1203-01		Kreuztal,Kromback,Germany	
10 Other Couldings	07 05 05	103	0230	replies and motified request			reigned	740.000			Recyfuel B4480	
											Zoning.D3200 / 61080 /	
											RGPED / 2008 / 2 /	
									ECO Safe Systems	Unit 1A,Allied Industrial	AP,Recyfuel B4480	Recyfuel B4480
									Limited,54-2 WCP-DC-09-	Estate,Kylemore Road	Zoning,Industriel	Zoning,Industriel
To Other Countries	07 05 01	Yes	1.665	aqueous washing liquids and mother liquors	R1	М	Weighed	Abroad	1203-01	Ballyfermot, Dublin 10, Ireland	D'Ehein, Engis, Belgium SAVA GmbH & Co.	D'Ehein, Engis Belgium
									ECO Safe Systems	Unit 1A Alied Industrial	KG.12HRO03010,Ostertweu	
									Limited.54-2 WCP-DC-09-	Estate,Kylemore Road	te,1,Brunsbuttel	Ostertweute,1,Brunsbuttel
To Other Countries	07.05.01	Yes	134	aqueous washing liquids and mother liquors	R1	M	Weighed	Abroad	1203-01	Ballyfermot, Dublin 10, Ireland		,25541,Germany
			1.04	and the second second								
											Umweltservice	
											Lindenschmidt	Han akan ina
											KG,E97095037,Umweltservi	Umwelts ervice Lindenschmidt
									ECO Colo Suctoms	Unit 1A Allied Industrial	ce Lindenschmidt KG,Krombacher Strabe 42 -	KG.Krombacher Strabe 42 -
									ECO Safe Systems Limited,54-2 WCP-DC-09-	Estate,Kylemore Road	46.57223	46,57223
To Other Countries	06.01.02	Yes	0.255	hydrochloric acid	R1	М	Weighed	Abroad	1203-01		Kreuztal, Kromback, Germany	
To Other Countries	00 01 02	1.02	0.255	nyorochione acid	IV.	m	ri englied	ACI DAG	1200-01	Confidence Court to the court		

AER Returns Workbook

	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	1	Method Used Method Used	Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility No. 1 Next Maz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of Recovert/Disposer	Name and Ucense / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Finel Ossination Le. Finel Recovery / Disposal Site. (HAZARDOUS WASTE ONLY)
Within the Country 0	7 05 04	Yes	0.8	other organic solvents, washing liquids and mother liquors	R2	M	Weighed	Offsite in Ireland	Soltec Ireland Limited,WO115-01 CW058	Zone A,Mullingar Business Park,Mullingar,Co Westmeath,Ireland	Soltec Ireland Limited,WO115-01 CW058,Zone A,Mullingar Business Park,Mullinger,Co Westmeath,Ireland	Zone A,Mullingar Business Park,Mullinger,Co Westmeath,Ireland
To Other Countries 0	7 05 01	Yes		aqueous washing liquids and mother liquors the Description of Wasterman calls the Berke Burn.	Ri	М	Weighed	Abroad	Soltec Ireland Limited,WO115-01 CW058	Zone A,Mullingar Business Park,Mullingar,Co Westmeath,Ireland	Afvalstoffen Terminal Moerdijk BV Industrrieterrein ,925215, Seaport M152, Vlasweg 12 Moerdijk, 4752 PW, Netherlan ds	Seaport M152, Vlasweg 12, Moerdik, 4752PW, Nether ands

AER Returns Workbook