

ANNUAL ENVIRONMENTAL REPORT

2014

FOR
SunChemical Inks Ltd.,
Palmerstown

IPC License 241

“All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements;”

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1. INTRODUCTION

Company Details

Company	SunChemical Inks, Ltd.
Address	Glenside House, Mill Lane
Town	Palmerstown
County / City	Dublin 20
Business	Printing Ink Manufacture
Employees	16
Contact Name	Mark Sedgwick
Position	Site Manager
Telephone	01-6206868
Fax	01-6262573
Email	mark.sedgwick@sunchemical.com

2. SITE DESCRIPTION

Previous Site Histories

The Glenside Mill originally housed a furniture factory after a period as a mill. Ink production commenced on site in 1934.

Company Background

Glenside Ink Company was established in 1934 and remained as such until 1965, when the Company was acquired by Coates Brothers of the UK. The Company underwent a further takeover in 1987 by Lorilleux, a French printing ink manufacturer owned by Total, the petroleum company. The Company undertook its latest identity in 2000 as the result of a merger between the then Coates Lorilleux and Sun Chemical Inc., a wholly owned subsidiary of Dainippon Ink and Chemicals, Japan. Sun Chemical continues to be the largest supplier of printing inks in the world, distributing printing inks and varnishes for use in a wide variety of printing and packaging applications and is the only multinational solely dedicated to supplying this sector of the graphic arts industry.

Locally, early 2011 saw a major restructure of the Company in Ireland following the withdrawal of Amcor Flexible Dublin from the Irish market. This resulted in a reduction of close to 900 Tonnes of solvent-based inks being supplied from the Palmerstown facility a trend that has continued year on year with the tonnage for 2014 reducing by a further 60%

Description of Equipment

The following pieces of equipment and machinery are involved in the manufacturing process:

Paste Ink:

(The blending of oil-based, UV and screen inks)

7X1-10Kg Blending Mixers
2x50 Kg Mixers
1xVacuum Packer / crimper
1xheated bath

Waterbased Blending

1xSussmeyer 25hp Stirrer
3x10hp Stirrer
1x5hp Stirrer

Solventbased Blending:

1xInkmake Dispenser System 33 pump
2x20hp Stirrers
2x2.5hp Stirrers

Newsink Storage and Pumping

4x25T Tanks (Black)
6x12T Tanks (Colour)

Manufacturing Process

There are two main types of product made at this site. A brief description of each process is given below:

Liquid Ink.

This process involves blending a mixture of brought in base inks into a final product. This may be either solvent or water based materials. Components are weighed, added to a mixing vessel and homogenised using an appropriate stirrer.

The inks are then tested for shade, gloss, strength etc. Upon approval inks are then filtered through a closed pump/sieve unit prior to packaging in an appropriate plastic or metal container.

Paste Ink.

This process involves the blending of oil based (mineral and vegetable) or UV curing acrylate resin based inks into a final product. Finishing and potting is as above except for filtration (not required).

Company Organisation

The main site responsibilities are as follows:

Function	Name
Site Manager / Environmental Officer	Mark Sedgwick
Shift Manager	Martin McDonnell

3. SUMMARY INFORMATION

Self-monitoring Data

Emissions to Waters / Sewer. *Emission Point SW-2*

SunChemical have an interceptor tank for rainwater run-off and for spillage capture, should there be an incident from a burst barrel or transport mishap. The interceptor is kept covered and checked visually on a daily basis and prior to the release of water. Independent testing is carried out on a quarterly basis against agreed parameters. No flow is measured as there is no process water or other going to the tank. Tank capacity is 1.4m³.

Date	Lab ID	BOD	COD	pH	Suspended Solids	Cond, uS/cm	TOC	Temp °C	Comments
Warning Levels		10-12	45						
Action Levels:		25	60						
2014									
06.11.14	118306	<2	6	7.0	7	59	1.2	16	Q4
15.08.14	116882	<2	6	6.9	2	60	1.8	19	Q3
22.05.14	115447	4	11	6.6	3	68	11	17	Q3
21.02.13	113730	2	4	7.2	3	76	1.6	9	Q1
2013									

Four spot-checks were carried out in 2014, by Tellabs, our independent contractor. All results were within license limits.

Emissions to Atmosphere. *Emission Point A2-1*

Emissions to atmosphere are measured by an independent, agreed contractor, on a quarterly basis. See table below for a summary of results received during 2014. All results were compliant with license requirements.

Measured Concentration (mg/m ³)	Emission Limit Value (mg/m ³)	Measured Mass Flow Rate (Kg/Hr)	Measured Volume Flow (Nm ³ /Hr)	Mass Flow Limit (Kg/Hr)	Maximum Volume Limit (Nm ³ /Hr)	Report Reference	Period
5.76	150	0.130	4697	6	10400	1226-26 v 1.00	Q4 2014
9.87	150	0.052	5289	6	10400	1226-25 v 1.00	Q3 2014
71.5	150	0.366	5122	6	10400	1226-24 v 1.00	Q2 2014
49.9	150	0.33	6673	6	10400	1226-23 v 1.00	Q1 2014

Waste Management

Waste details are recorded in the reports section

Agency Monitoring and Enforcement

No direct monitoring was carried out by the Agency during 2014

Energy and Water Consumption

The Company has established further energy monitoring and reduction programs during 2014 including employee energy awareness training and dedicated energy performance monitoring.

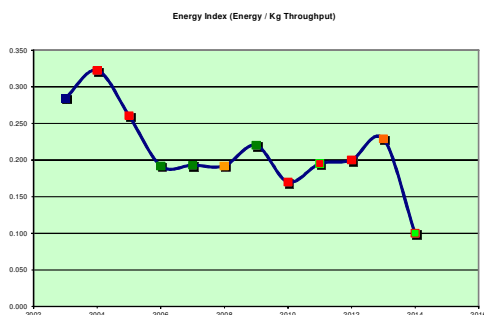
3.3.1 Energy Consumption Summary:

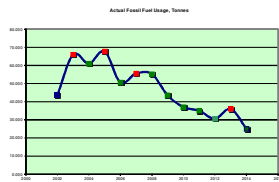
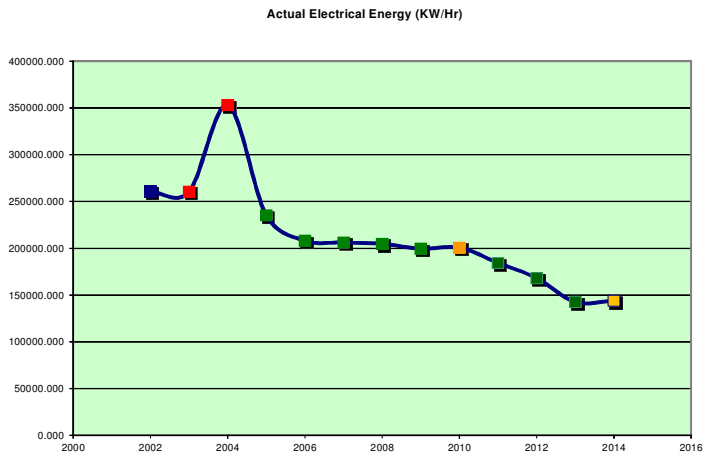
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Kgs Throughput	3232400	3836200	4062241	4310095	4147609	3153000	3710000	2854311	2497198	2384520
Fuel Litres	61000	67700	50580	55500	55200	43538	37052	35050	30614	36715
Converted to kWh	689300	765010	571554	627150	593250	491979	418688	396065	345938	414882
Electricity, kWh	353000	235300	208022	206160	204720	199518	200582	184354	163930	142660
Total Energy Used kWh	1042300	1000310	779576	833310	797970	691497	619270	580419	509868	557542
Energy Index	0.32	0.26	0.19	0.19	0.19	0.22	0.17	0.20	0.20	0.23

Our air compressor had been singled out as the largest demand on electrical power. The planned replacement for this unit introduced in July 2013 with a smaller and more efficient unit better suited to our needs continues to assist in the improvement in electrical energy consumption.

A program of external lighting replacement using energy efficient LED lighting has also commenced with the installation of two trial units during mid 2014.

Energy versus Kg throughput has been calculated to determine the overall trend in energy usage. The graph shows below describes the introduction of heated ink stores in late 2002 and the consequent rise in energy usage. As described in the data above, continued action from late 2004 onwards has resulted in a net reduction of 18% in the energy used per Kg throughput for 2005 and a further 22% reduction in 2006. This value has leveled off during 2007. A modest saving was realised in 2008. The rise in the energy index 2009 was as a direct result of the downturn in the economy. This saw a significant decrease in the volume of ink sold (24%). Notwithstanding this volume decrease, the Company had reduced actual electrical energy and fossil fuel usage over 2008. In 2010, after a successful sales campaign, volume increased by 18% although energy consumption fell by 15%. 2011 saw significant reductions in volumes as have 2012 and 2013. The result from 2014 is interesting in that overall volume throughput increased (and hence electrical energy usage) but a focus on fuel usage reduction in particular has resulted in a considerable improvement in Energy usage





3.3.2. Water Consumption

2008 M ³	2009 M ³	2010 M ³	2011 M ³	2012 M ³	2013 M ³	2014 M ³
190	186	177	165	148	204	210*

Water is taken from the district water supply for use in the toilets, canteen and laboratory. Product incorporated water amounted to 51.4T in 2014 used in the manufacture of water-based inks (a 4% increase on the previous year). An increase in site staffing has also contributed to the increase in usage.

Environmental Incidents and Complaints

There were no environmental incidents during 2014. Neither was any complaint received from the public, local businesses, or any official body, or reported to the Agency in respect of SunChemical.

4. MANAGEMENT OF THE ACTIVITY

4.1 Schedule of Environmental Objectives and Targets 2015

The following table is a schedule of objectives and targets that have been set out by SunChemical, in order to reduce any environmental impacts and improve environmental practices. The program was decided and accepted at the Annual Environmental Review held in March 2014 and was based on the critical aspects and impacts of the business on the environment.

Objective	Target	Timescale	Resp.
1. Energy Usage	Reduce electricity consumption by 5% over 2014	Qtr 4, 2015	M. McDonnell / P. McDonnell
	Reduce fuel oil consumption by at least 5 over 2014		
2. Improve Waste Management Practices	a. Reduce waste to landfill by 4% over 2014 through improved recycling of containers	YE 2015	Site Manager
	b. Reduce Hazardous waste by 5% over 2014 through further reductions in solvent-based activity.	YE 2015	Site Manager
3. Reduce use of Solvent-based technologies	Move target customers away from solvent-based technologies to non-volatiles. (Wbased and EB). Reduce use of solvent products by 5% over 2014	YE 2015	Site Manager
4. Promote use of greener ink technology	Extend use Low Migration Technology at MSO, Delta to all printed materials at these sites. Replace PET barrier varnish with maize protein product	YE 2015	Business Manager, Packaging

4.2 Environmental Management Programme Report 2014

The following outcomes against Environmental Objectives 2014 have been achieved

Objective	Target	Timescale	Resp.
1. Energy Usage	Reduce electricity consumption by 44KWhr over 2013	Qtr 4, 2014	M. McDonnell / P. McDonnell
	Reduce fuel oil consumption by at least 10% over 2013. 2013 38k L, 2014 25k L, -34%		
2. Improve Waste Management Practices	a. Reduce waste to landfill by 4% over 2013 through reduced use of plastic containers and shrink wrap. 9.1% achieved	YE 2014	Site Manager
	b. Reduce Hazardous waste by 5% over 2013 through further reductions in solvent-based activity. Achieved 19.1%	YE 2014	Site Manager
3. Reduce vehicle / product movements	Improve local delivery consolidation. Reduce carriers from 3 to 1. (minimizes on site vehicles). 1 Carrier. Local Movements reduced 14.5%	YE 2014	Site Manager
4. Reduce use of Solvent-based technologies	Move target customers away from solvent-based technologies to non-volatiles. (Wbased and EB)Reduce use of solvent products by 5% over 2013. Achieved 1.25%	YE 2014	Site Manager
5. Promote use of greener ink technology	Extend use Low Migration Technology at MSO, Delta to all printed materials at these sites. Replace PET barrier varnish with maize protein product	YE 2014	Business Manager, Packaging

Target 1. A slight increase in electrical energy use was recorded (0.8%). This has been attributed to the concurrent increase in volume throughput for the site of 2%.

Target 4. Partially achieved with 1.25% reduction in solvent based seen.

Target 5 has been implemented at Delta packaging, and now MSO Packaging. The target in respect of PET barrier varnish has been again carried over and extended for 2015.

4.3 Further Comment

2014 again saw a small reduction in solvent based inks with the volume being directly replaced at customers by waterbased equivalents. As customers introduce new printing equipment this now appears to be an established trend.

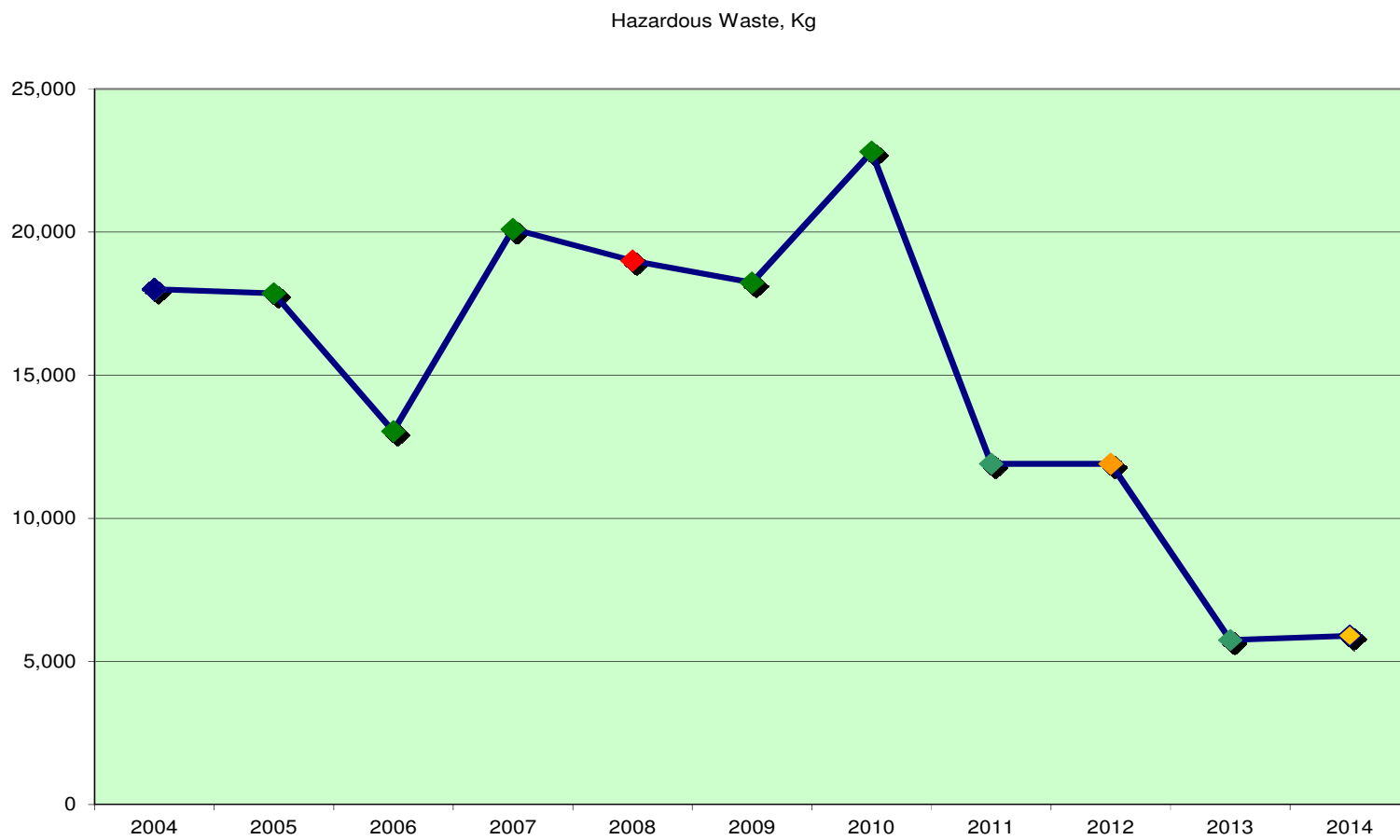
5. LICENCE SPECIFIC REPORTS

The following reports are included as required by the terms of the Licence:

- Noise Survey (submitted through Alder)
- PER
- Waste Details
- Bund Inspections (submitted through Alder)

Waste Details Report

Waste	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total quantity of waste produced in calendar year(Tonnes)	64.1	63.5	57.0	51.0	47	47	43.7	43.7	18.4	17.6
total quantity of waste disposed of on-site	0	0	0	0	0	0	0	0	0	0
total quantity of waste disposed of off-site	34.4	35.5	34.0	32.0	31	34	36.9	36.9	13.8	13.2
total quantity of waste recovered on-site	0	0	0	0	0	0	0	0	0	0
total quantity of waste recovered off-site	29.8	28.0	22.0	19.0	16	13	6.8	6.8	4.6	4.4
	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Quantity of non-hazardous waste produced in calendar year	46.3	50.5	37.0	32.0	28	23.9	31.8	31.8	13.8	11.7
quantity of non-hazardous waste disposed of on-site	0	0	0	0	0	0	0	0	0	0
quantity of non-hazardous waste disposed of off-site	16.5	22.5	14.4	13.0	12.0	10.9	25.0	25.0	9.2	7.3
quantity of non-hazardous waste recovered on-site	0	0	0		0	0	0	0	0	0
quantity of non-hazardous waste recovered off-site	29.8	28.0	22.4	19.0	16	13.0	6.8	6.8	4.6	4.4
	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Quantity of hazardous waste produced in calendar year (Tonnes)	17.9	13.0	20.0	32.0	19.0	22.8	11.9	11.9	5.7	5.9
quantity of hazardous waste disposed of on-site	0	0	0	0	0	0	0	0	0	0
quantity of hazardous waste disposed of off-site	17.9	13.0	20.0	19.0	19.0	22.8	11.9	11.9	5.7	5.9
quantity of hazardous waste recovered on-site	0	0	0	0	0	0	0	0	0	0
quantity of hazardous waste recovered off-site	0	0	0	32.0	0	0	0	0	0	0





[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2014
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1. FACILITY IDENTIFICATION

Parent Company Name	Sun Chemical Inks Limited
Facility Name	Sun Chemical Inks Limited
PRTR Identification Number	P0241
Licence Number	P0241-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Glenside Works
Address 2	Mill Lane
Address 3	Palmerstown
Address 4	Dublin 20
	Dublin
Country	Ireland
Coordinates of Location	-6.36032 53.3582
River Basin District	IEEA
NACE Code	2030
Main Economic Activity	Manufacture of paints, varnishes and similar coatings, printing ink and mastics
AER Returns Contact Name	Mark Sedgwick
AER Returns Contact Email Address	mark.sedgwick@sunchemical.com
AER Returns Contact Position	Site Manager
AER Returns Contact Telephone Number	01-6206868 eext 223
AER Returns Contact Mobile Phone Number	086-2434126
AER Returns Contact Fax Number	01-6262573
Production Volume	311.6
Production Volume Units	Tonnes
Number of Installations	1
Number of Operating Hours in Year	1650
Number of Employees	16
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
4(a)	Simple hydrocarbons (linear or cyclic, saturated or unsaturated, aliphatic or aromatic), Oxygen-containing hydrocarbons such as alcohols, aldehydes, ketones, carboxylic acids, esters, acetates, ethers, peroxides, epoxy resins, Nitrogenous hydrocarbons such as amines, amides, nitrous compounds, nitro compounds or nitrate compounds, nitriles, cyanates, isocyanates, Synthetic rubbers, Phosphorus-containing hydrocarbons, Halogenic hydrocarbons, Organometallic compounds, Basic plastic materials (polymers, s

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	No
Have you been granted an exemption ?	No
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	No
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4.1 RELEASES TO AIR		Link to previous years emissions data		IPRT# : P02411 Facility Name : Sun Chemical India Limited Return Year : 2014		25/02/2015 15:57		
SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS								
RELEASES TO AIR		METHOD		Please enter all quantities in this section in KGs				
POLLUTANT		M/C/E	Method Code	Designation or Description	ADD EMISSION POINT	QUANTITY		
No. Annex II	Name				Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0
ADD NEW ROW DELETE ROW *		* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button						
SECTION B : REMAINING PRTR POLLUTANTS								
RELEASES TO AIR		METHOD		Please enter all quantities in this section in KGs				
POLLUTANT		M/C/E	Method Code	Designation or Description	ADD EMISSION POINT	QUANTITY		
No. Annex II	Name				Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0
ADD NEW ROW DELETE ROW *		* 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 AIR		METHOD		Please enter all quantities in this section in KGs				
POLLUTANT		M/C/E	Method Code	Designation or Description	ADD EMISSION POINT	QUANTITY		
Pollutant No.	Name				Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
248	Ethanol	M	OTH	In house calculation	21.7	50.7	0.0	29.0
ADD NEW ROW DELETE ROW *								

4.2 RELEASES TO WATERS		Link to previous years emissions data				PRTR# : P0241 Facility Name : Sun Chemical Inks Limited Filename : Copy of P0241_2014.xls Return Year : 2014				25/03/2015 15:57		
SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS						Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted						
RELEASES TO WATERS						Please enter all quantities in this section in KGs						
POLLUTANT						ADD EMISSION POINT		QUANTITY				
No. Annex II		Name				M/C/E	Method Used	Emission Point 1	T (Total) KG/Year	A (Accidental)	F (Fugitive)	
						Method Code	Designation or Description					
								0.0	0.0	0.0	0.0	
ADD NEW ROW		DELETE ROW *		* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button								
SECTION B : REMAINING PRTR POLLUTANTS						Please enter all quantities in this section in KGs						
RELEASES TO WATERS						Please enter all quantities in this section in KGs						
POLLUTANT						ADD EMISSION POINT		QUANTITY				
No. Annex II		Name				M/C/E	Method Used	Emission Point 1	T (Total) KG/Year	A (Accidental)	F (Fugitive)	
						Method Code	Designation or Description					
								0.0	0.0	0.0	0.0	
ADD NEW ROW		DELETE ROW *		* 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)						Please enter all quantities in this section in KGs						
RELEASES TO WATERS						Please enter all quantities in this section in KGs						
POLLUTANT						ADD EMISSION POINT		QUANTITY				
Pollutant No.		Name				M/C/E	Method Used	Emission Point 1	T (Total) KG/Year	A (Accidental)	F (Fugitive)	
						Method Code	Designation or Description					
								0.0	0.0	0.0	0.0	
ADD NEW ROW		DELETE ROW *		* 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	PRTR#: P0241 Facility Name : Sun Chemical Inks Limited Filename : Copy of P0241_	25/03/2015 15:57			
SECTION A : PRTR POLLUTANTS							
OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER			Please enter all quantities in this section in KGs				
POLLUTANT		METHOD		ADD EMISSION POINT	QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Method Used		
				Emission Point 1	T (Total) KG/Year	A (Accidental)	F (Fugitive)
				0.0	0.0	0.0	0.0
ADD NEW ROW		DELETE ROW *		* 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)							
OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER			Please enter all quantities in this section in KGs				
POLLUTANT		METHOD		ADD EMISSION POINT	QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Method Used		
				Emission Point 1	T (Total) KG/Year	A (Accidental)	F (Fugitive)
				0.0	0.0	0.0	0.0
ADD NEW ROW		DELETE ROW *		* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button			

4.4 RELEASES TO LAND		Link to previous years emissions data			PRTR#: P0241 Facility Name : Sun Chemical Inks Limited Filename : Copy of P0241_2014.xls Return Year : 2014			25/03/2015 15:57		
SECTION A : PRTR POLLUTANTS										
RELEASERS TO LAND				Please enter all quantities in this section in KGs						
POLLUTANT		METHOD			ADD EMISSION POINT		QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Method Used	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year		
						0.0	0.0	0.0		
ADD NEW ROW		DELETE ROW *		* 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)										
RELEASERS TO LAND				Please enter all quantities in this section in KGs						
POLLUTANT		METHOD			ADD EMISSION POINT		QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Method Used	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year		
						0.0	0.0	0.0		
ADD NEW ROW		DELETE ROW *		* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button						

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE		PRTR# : P0241 Facility Name : Sun Chemical Ink Limited Filename : Copy of P0241_2014.xls Return Year : 2014 25/03/2015 15:57											
Please enter all quantities on this sheet in Tonnes													
Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Has Waste: Name and Licence/Permit No of Next Destination Facility	Has Waste: Name and Licence/Permit No of Recover/Disposer	Has Waste: Address of Next Destination Facility	Name and Licence / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used		Non	Non	Non	Non	
A_DELETE ROW													
To Other Countries	08 03 12	Yes	5.3	waste ink containing dangerous substances	R3	M	Weighed	Abroad	Rilta Environmental Ltd,EPA 192-1 National		Greenogue Business Park,,Rathcoole,Co. Dublin,Ireland	Afvalstoffen Terminal Moerdijk B.V.,821780 Provinc Noord-Brabant,Vlasweg 12,,Moerdijk,4782 Pw,Netherlands	Vlasweg 12,,Moerdijk,4782 Pw,Netherlands
Within the Country	15 01 04	No	4.4	metallic packaging	R4	M	Weighed	Offsite in Ireland	Recycling,WPR045		John F Kennedy Drive,,Dublin 12,Ireland	JFK Industrial Estate,Unit 28,Naas Road,Dublin 12,Ireland	
	15 01 05	No	7.3	composite packaging	R5	M	Weighed	Offsite in Ireland	Lawlor Bros (Waste Disposal) Ltd,W0227-01		Old Luon Road,,Palmerstown,Dublin 20,Ireland		
Within the Count		20 03 04	No	0.0	septic tank sludge	D8	M	Weighed	Offsite in Ireland	Action Drain,CPD086/1			

* Select a row by double-clicking the Description of Waste then click the delete button

