

Date: 06-09-2012

To
The Member Secretary,
TamilNadu Pollution Control Board,
73, Mount salai, Guindy,
Chennai 600 032

Dear Sir,

Sub: Submission of Environment Statement April 2011 to March-2012 regarding
Ref: Environmental Protection Rules-1986 Rule Number 14 & "Form - V"

With reference to the above subject and as a part of complying the statutory requirements we would like to submit the Environmental statement in "Form-V to your office with necessary details for your kind reference and for your record please.

Kindly acknowledge the same.

Yours faithfully,
For Momentive Performance Materials (India) Private Limited,

Authorised Signatory

C C to:

- The District Environment Engineer,
593/3, Bazaar Street, Balaji Complex, Padappai-601031.
Sriperumpudur Tk, Kancheepuram District.
- The Director (S),
Government of India, Ministry of Environment & Forest,
Regional Office (Southern Zone),
Kendriya Sadan 4th floor, E & F wings,
17th Main road, 2nd Block, Koramangala,
Banglore - 560 034

FORM V				
Rule No 14 ,Under Environmental Protection Rules 1986				
Environmental Statement for the financial year Ending the 31 st March 2012				
PART A				
i}	Name and address of the owner/Occupier of the industry operations or process	Momentive Performance Materials (India) Private Ltd, B-3,SIPCOT Industrial Growth center, Oragadam – 602105, Sriperumbudur Tk, Kancheepuram DT, Tamilnadu.		
ii}	Industry category Primary – (STC code) Secondary – (STC Code)	Red		
iii}	Production capacity – Units –	Products	MT / Annum	MT / Annum
		Amino Fluids	936	174.26
		Abn Quats	3000	10.31
		Emulsion	300	371.32
		UV Hard Coats	48	16.37
		Heat Cured Rubber HCR	996	296.57
		Sealant Repacking	1404	286.22
		Ureathene Additive blends	324	347.36
		By Products		
Octa methyl tetra siloxane	1800	Not produced		
Heat Cured Rubber gum	2196			
iv}	Year of Establishment	2009		
v}	Date of last Environmental statement submitted	19-09-2011		
PART B				
{1}	Water and Raw Material Consumption			
	Water consumption M3 / Day -Total	26 M³ / day		
	Process	2.0 M ³ / day		
	cooling	14.0 M ³ / day		
	Domestic	10 M ³ / day		
	Name of the products	Process water consumption per unit of product output		
		During the previous financial Year	During the Current financial Year April-2010 to March-2011 M3 / MT	
		{1}	{2}	
	1 Amino Fluids			
	2 Abn Quats			
	3 Emulsion	Refer Annexure -1		
	4 UV Hard Coats			
	5 Heat Cured Rubber HCR			
	6 Sealant Repacking			
	7 Ureathene Additive blends			

{2}	** Raw Material Consumption			
	Name of the Raw material	Name of the products	Consumption of the raw material per unit	
			During the previous financial Year	During the Current financial Year
	(Refer Annexure - 2)			
	** Industry may use codes if disclosing details of raw material would violate Contractual obligations ,otherwise all industries have to name the ram materials used			
	PART C			
	Pollution discharged to Environment/ Unit of Output			
	[Parameter as specified in the consent issued			
	Pollution	Quantity of pollutants Discharged (Mass / Day)	Concentrations of Pollutants in discharges Mass / Volume	Percentage of variation from prescribed standards with reasons
	Water			
	Domestic water	10 M ³ / Day	Zero Liquid discharge plant the permeate water consumed for cooling tower.	Within the limits
	Air	DG & HCR off gas stack discharged as per norms		Within the limits
	PART D			
	Hazardous waste			
	As specified under Haz waste (Management and Handling Rules 1989)			
	Hazardous wastes	Total Quantity (Kg)		
	a) Process	During the previous financial Year	During the Current financial Year	
	b) From pollution control Facilities	NA	NA	
	(Refer Annexure - 3)			
	PART E			
	Solid wastes			
		Total Quantity		
		During the previous financial Year	During the Current financial Year	
	a) Process			
	b) From pollution control Facilities			
	c) Quantity Recycled or reutilised within the unit			
	d) Solid			
	e) Disposed			
	(Refer Annexure - 3)			

PART F
Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.
(Refer Annexure - 3)
PART G
Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.
(Refer Annexure - 4)
PART H
Additional measures/investment proposal for environmental protection including abatement of pollution.
(Refer Annexure - 5)
PART-I
Any other particulars in respect of environmental protection and abatement of pollution.
(Refer Annexure - 6)

Annexure 1

Water consumption per unit of product output

S No	Products	Raw Materials	From September - 2010 to March-2011	From April- 2011 to March 2012
			M3/MT	
1	Aminosiloxane	Octra Methyl Cyclo Tetra Siloxane (D 4)	NIL	NIL
		Catalyst		
		Siloxane		
2	Abn Quats	De-Mineralised Water	NIL	0.022
3	Emulsion	De-Mineralized Water *	2.00	0.511
4	UV Hard Coats	Methoxy Propanol	NIL	NIL
		Lucirin		
		Baysillon		
		Hard Coat		
		Ebecryl		
		Tinuvin 123		
5	Heat Cured rubber HCR	Heat Cured Rubber Gum	NIL	NIL
		Silica-Fumed/ Precipitated		
		HMDZ		
		Dispersion oils		
		Base Rubber		
6	Ureathene Additives blends	Polyvornol	NIL	NIL
		Silicone polymers		
		Soybean oil		
		Dipropyleneglycol		
		Isopropanol		
		Ucar Filmer		
		Diluents		
7	Sealants	Sealants from our other companies	NIL	NIL

* DM water is purchased externally

Annexure 2

Raw material consumption

S No	Products	Raw Materials	From September - 2010 to March-2011	From April- 2011 to March 2012
			MT/Annum/Unit	
1	Aminosiloxane	Octra Methyl Cyclo Tetra Siloxane (D 4)	NIL	0.9980
		Catalyst		0.0030
		Siloxane		0.0180
2	Abn & Quats	Si-H fluid	NIL	0.9420
		Amine Salt Solution		0.0820
		Downol		0.0380
		De-Mineralised Water		0.0220
3	Emulsions	Silicone Oil	0.3233	0.2500
		Additives (Acetic Acid & Polyethylene glycol)	0.1772	0.2480
		De-Mineralized Water *	0.4996	0.5110
4	UV Hard Coats	Methoxy Propanol	NIL	0.3160
		Lucirin		0.0120
		Baysillon		0.0820
		Hard Coat		0.0390
		Ebecryl		0.5460
		Tinuvin 123		0.0040
5	Heat Cured rubber HCR	Heat Cured Rubber Gum	0.0350	0.0280
		Silica-Fumed/ Precipitated	0.0134	0.0290
		HMDZ	0.0003	0.0001
		Dispersion oils	0.0009	0.0018
		Base Rubber	0.9506	0.9420
6	Ureathene Additives blends	Polyvornol	NIL	
		Silicone polymers		0.5448
		Soybean oil		
		Dipropyleneglycol		0.4625
		Isopropanol		
		Ucar Filmer		
		Diluents		
7	Sealants	Sealants from our other companies	Repacking	Repacking

Annexure -3

Part - D

Hazardous waste Details

S No	Physical form and Description of the Haz waste Generated	Haz Category as per TNPCB	From September - 2010 to March-2011	From April- 2011 to March-2012	UOM	Disposal method
			Quantity/ Annum			
1	Spent oil	5.1	150	650	Lit	To be Disposed through authorized vendors.
2	Cotton waste & Used Gloves contaminated with Silicone oil Residue	27.1	5.77	11.07	MT	Disposed to Tamil Nadu Waste Management facility at Gummidipoondi, Chennai

Part- E

Solid wastes

Non - Hazardous waste

S No	Physical form and Description of the Non Hazardous waste Generated	From April10 to March-2011	From April- 2011 to March-2012	UOM	Disposal method
		Quantity/ Annum			
1	Sewage Treatment Plant Sludge (Non Hazardous)	1.2	1.5	MT	Used as Manure for gardening inside the premises.
2	Product Drums M S	45.9	63.8	MT	Disposed through authorized vendors.
3	waste cotton boxes / Packing materials/Plastic covers	30.916	64.805	MT	
4	waste wooden palletes			MT	
5	Product Drums Plastic	2.3	2.8	MT	
6	Empty Carbuoys Plastic	1.2	11.2	MT	

Part - G

Annexure - 4

**Impact of the Pollution control measures on
Naturally resources conservation**

Conservation measures

A Water conservation

B Power conservation

C Soil conservation measures

A Water conservation

1. Treated water Sewage and Effluent treatment plant are operated and maintained by the third party competent person and the discharge water is being reused for process /Gardening needs within the premises, thereby Raw water procurement is optimized.
2. Awareness on conservation of water among the workers are practiced
3. Display boards on effective utilization of water as an eye opener.
4. To conserve and effective utilization of water, Orifice plates provided in the pipe line and information boards displayed at the utility points.
5. Rain water Harvesting system incorporated to maintain/increase the underground water level at the site
6. Collected rainwater is used for gardening purposes
7. To control and to monitor the water consumption Water Flow meters fixed in all utility points and wherever specific consumption is high conservation measures will be taken.
8. Necessary manpower is provided to monitor the conservation programme
9. All water taps and pipe lines were monitored periodically and replace the defects to minimize the water wastages.

B Power conservation

1. High efficiency equipments are in service to perform and conserve naturally occurring fuels
2. Switching off the Electrical equipments in time to avoid waste electrical energy.
3. Installed Capacitors to attain the Power factors up to 98%
4. Energy saving Fluorescence bulbs are used instead of the conventional Incandescence bulbs
5. Natural illuminations is effectively utilized and usage of electrical lights are minimized.
6. Display boards on effective utilization of power as an eye opener.
7. Periodical Cleaning of lighting covers and shades to minimize more number of lights and for effective illumination
8. Periodical Preventive maintenance is in practice, thereby excess noise released and energy consumed by the equipment is minimized.

C Soil conservation measures

1. The Site is fully covered with walls with suitable drains there by erosion of soil due to heavy rain is minimized.
2. Rain water Harvesting system existing to minimize the soil erosions.
3. Plantation of trees to minimize the soil erosion.
4. Proper drains and trenches to minimize the earth erosion

Annexure 5

Part - H

Additional measures proposed for Environment protection and pollution prevention.

Proposed cost for implementing of Environment management system for the financial year-2011 to 2012

S No	Area of development	Operational Cost in Lakhs / year
1	Studying of "Carbon foot print" measures and implementation in this site in near future.	25
2	Projects to reduce power & fuel consumptions.	10
3	Effluent Treatment Plant Annual Maintenance by third party competent person	10
4	Sewage water treatment Annual maintenance by third party competent person	5
5	Stack Monitoring by third party competent person	4
6	Ambient Air quality monitoring by third party competent person	4
7	Safe Disposal of Hazardous waste by third party competent person	3
8	Green Belt development	15
9	Maintenance of gardening and House keeping	2
10	On line Gas emission monitoring	10
11	Display on Environment related Boards	2
Total per Annum in INR		90

Environment Monitoring system

- 1 Environment is monitored round the clock. Patrolling round by Environment department, Shift in-charges, field section in-charges and Security personals. Any deviations noticed, Immediate corrective actions initiated.
- 2 Members of Environmental Management cell is force for exclusive monitoring of Environment.
- 3 Environmental Measuring and Monitoring by Third party competent persons

Details as follows:

Monitoring Frequency: once in a month

Method of sampling: ISO-Kinetic, Manual Procedure.

Monitoring Parameters: As per TNPCB Norms

Results: With in the norms

Particulars of monitoring

Ambient Air quality monitoring

Stack emission monitoring

Noise monitoring

ETP/STP inlet/outlet monitoring

working Zone monitoring

- 4 Ambient Air quality Monitoring at plant premises
(24 hours Continuous monitoring)
- 5 Waste water quality : Domestic(STP)
(24 hours Continuous monitoring)
- 6 ETP Zero Liquid Discharge: Out let of Effluent treatment Plant
(24 hours Continuous monitoring)
- 7 Noise level : Noise level Measurement at:
 - 1•Administration Block
 - 2•Process Air Blower area
 - 3•Compressor room
 - 4•D G Set area
 - 5•Boundary of the plant
- 8 Quality Physical & Chemical parameters and metals in Soil by Grab sampling method in Pre-monsoon and post Monsoon season.

Part - I

Annexure 6

Initiatives on Environments protection abatement

1. Focused Green belt development. More than 50% of the site area is covered by greenery plantations.
2. Periodical mockdrills on chemical spills, Leaks , Fire and Natural Hazards to check the alertness and necessary corrective actions are implemented to masticate any type of hazards.
3. Conducting Environmental related awareness programmes, quiz programmes are conducted during June 5 ,World Environment day.
4. Every year we plan to plant samplings of more than 100 Number in and around the industrial premises
5. We plan for Conducting training on Environmental awareness for the nearby village school students
6. Separate Bins placed at section wise for effective disposal of Bio-gradable and non bio-gradable wastes.
7. All the storages were provided with dyke arrangement.