

Acknowledgment

MOMENTIVE

Momentive Performance Materials (India) Pvt Ltd.

B-3, SIPCOT Industrial Growth Centre
Vaipur Village, Oragadam, Sriperambudur Taluk
Kancheepuram Dist
Tamilnadu-602105
www.momentive.com

Date: 19-09-2011

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

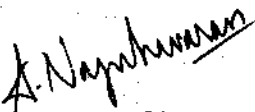
Dear Sir,

Sub: Submission of Environment Statement April 2010 to March-2011 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" format to your office with necessary details for your kind reference and for your record please.

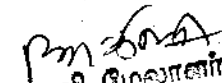
Kindly acknowledge the same.

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


A. N. Jayaraman
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


உதவி மேலாளர்
தமிழ்நாடு மாநிலத் துறைமுக வாரியம்
சென்னை - 601 301.
கி.மு.சு.பு.ப. ம.ப.ப.ப.ப.ப.

P. K. Muthu Kumar

MOMENTIVE™

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| FORM V | | | | |
|--|--|---|--|-----------------------------------|
| Rule No 14 ,Under Environmental Protection Rules 1986 | | | | |
| Environmental Statement for the financial year Ending the 31 st March 2011 | | | | |
| 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 / Month | MT / Annum |
| | | Emulsion | 78 | 936 |
| | | Sealant Repacking | 25 | 300 |
| | | Heat Cured Rubber | 250 | 3000 |
| | | Total | 353 | 4236 |
| iv} | Year of Establishment | 2009 | | |
| v} | Date of last Environmental statement submitted | 23-09-2010 | | |
| PART B | | | | |
| {1} | <u>Water and Raw Material Consumption</u> | | | |
| | Water consumption M3 / Day -Total | 11 M³ / day | | |
| | Process | 0.5 M ³ / day | | |
| | cooling | 0.5 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 | Emulsions | 0.0013 | 2.00 | |
| 2 | Heat Cured Rubber | 0.00006 | 0 | |
| 3 | Sealants Repacking | 0 | 0 | |
| {2} | <u>** Raw Material Consumption</u> | | | |
| | 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 - 1) | | | |
| ** 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 discharge and consumed internally. | Within the limits |
| Air | DG 75 KVA & 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 - 2) | | | |
| 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 - 2) | | | |
| 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 - 2) | | | |
| PART G | | | |
| Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production. | | | |
| (Refer Annexure - 3) | | | |
| PART H | | | |
| Additional measures/investment proposal for environmental protection including abatement of pollution. | | | |
| (Refer Annexure - 4) | | | |
| PART-I | | | |
| Any other particulars in respect of environmental protection and abatement of pollution. | | | |
| (Refer Annexure - 5) | | | |

Annexure - 1

Major Raw material consumption

| S No | Products | Raw Materials | From September - 2009 to March-2010 | From April- 2010 to March-2011 |
|------|-----------|---|-------------------------------------|--------------------------------|
| | | | MT/Annum/Unit | |
| 1 | Emulsions | Silicone Oil | 0.35 | 0.3233 |
| | | Additives (Acetic Acid & Polyethylene glycol) | 0.10 | 0.1772 |
| | | De-Mineralized Water * | 0.55 | 0.4996 |
| 2 | HCR | Heat Cured Rubber Gum | 0.70 | 0.0350 |
| | | Silica-Fumed/ Precipitated | 0.25 | 0.0134 |
| | | HMDZ | 0.03 | 0.0003 |
| | | Dispersion oils | 0.03 | 0.0009 |
| | | Base Rubber | - | 0.9506 |
| 3 | Sealants | Sealants from our other companies | Repacking | Repacking |

* DM water is purchased externally



Annexure -2

Part - D

Hazardous waste Details

| S No | Physical form and Description of the Haz waste Generated | Haz Category as per TNPCB | From September - 2009 to March-2010 | From April- 2010 to March-2011 | UOM | Disposal method |
|------|---|---------------------------|-------------------------------------|--------------------------------|-----|---|
| | | | Quantity/ Annum | | | |
| 1 | Spent oil | 5.1 | 150 | 150 | Lit | Disposed through authorized vendors. |
| 2 | Cotton waste & Used Gloves contaminated with Silicone oil Residue | 27.1 | 3 | 5.77 | MT | Plan to dispose to Common incineration facility at Gummidipoondi, Chennai |

Part- E

Solid wastes

Non - Hazardous waste

| S No | Physical form and Description of the Non Hazardous waste Generated | From Sep - 2009 to March- 2010 | From April- 2010 to March-2011 | UOM | Disposal method |
|------|--|--------------------------------|--------------------------------|-----|---|
| | | Quantity/ Annum | | | |
| 1 | Swage Treatment Plant Sludge (Non Hazardous) | 0.4 | 1.2 | MT | Uses as Manure for gardening inside the premises. |
| 2 | Product Drums M S | 30 | 45.9 | MT | Disposed through authorised vendors. |
| 3 | waste cotton boxes / Packing materials/Plastic covers | 2 | 30.916 | MT | |
| 4 | waste wooden palettes | 5 | | MT | |
| 5 | Product Drums Plastic | | 2.3 | MT | |
| 6 | Empty Carbuoys Plastic | | 1.2 | MT | |

Part - G

Annexure - 3

**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 grass and trees to minimize the soil erosion.
- 4 Proper drains and trenches to minimize the earth erosion

AN

Annexure 4

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 "Care Air" 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 | Swage water treatment Annual maintenance by third party competent person | 5 |
| 5 | Stack Monitoring by third party competent person | 2 |
| 6 | Ambient Air quality monitoring by third party competent person | 2 |
| 7 | Safe Disposal of Hazardous waste by third party competent person | 2 |
| 8 | Green Belt development | 15 |
| 9 | Maintenance of gardening and House keeping | 2 |
| 10 | Display on Environment related Boards | 1 |
| Total per Annum in INR | | 74 |



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

- I Air quality monitoring
 - a Boiler Vent stack emissions
 - b D G Set Exhaust Emissions
 - c HCR Kneader stack
 - d H T F
 - f working Zone monitoring
- ii Ambient Air quality Monitoring at plant premises
(24 hours Continuous monitoring)
- iii Water & waste water quality : Domestic
(24 hours Continuous monitoring)
- iv Effluents: Out let of Effluent treatment Plant
(24 hours Continuous monitoring)
- v Noise level : Noise level Measurement at:
 - a Administration Block
 - b Process Air Blower area
 - c Compressor room
 - d D G Set area
 - f Boundary of the plant
- vi Quality Physical & Chemical parameters and metals in Soil by Grab sampling method in Pre-monsoon and post Monsoon season.



Part - I

Annexure 5

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 Jointly Organized a section on Environment awareness with TamilNadu Pollution Control Board for all Momentive employees. Another section organized for all the neighboring industries on "Care Air" with the initiation of TamilNadu Pollution Control Board
- 5 Every year we plan to plant samplings of more than 100 Number in and around the industrial premises
- 6 We plan for Conducting training on Environmental awareness for the nearby village school students
- 7 Environmental awareness : Performed a sanitation Awareness Campaign nearby village peoples and Received a award from District Collector on Independence day (15-Aug-2011).
- 8 Separate Bins placed at section wise for effective disposal of Bio-gradable and non bio-gradable wastes.
- 9 All the storages were provided with dike arrangement.
- 10 Periodical monitoring of Air, Water and discharges

