

## Jessica

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**From:** Ian Gildenhuis <Ian.Gildenhuis@capetown.gov.za>  
**Sent:** Tuesday, 05 February 2019 8:00 AM  
**To:** Jessica; Lynelle Matthys; Rowan Carolus; Ed Filby  
**Cc:** 'Derrick Nel'; 'Nicolaas Hanekom'  
**Subject:** RE: Proposed polystyrene plant in Atlantis - Swartland

Hi Jessica

I have just received feedback from DEA's Specialist Technical Adviser, Dr Vincent Gololo, who confirms that the proposed activity does indeed trigger the Category 6 Organic Chemical's Industry listed activity.

Regards

Ian Gildenhuis  
Head Specialised Environmental Health  
City Health

246 Voortrekker Road, Vasco

**Tel:** 021 5905200  
**Fax:** 021 590 5215  
**Cell:** 0842200139  
[Ian.Gildenhuis@capetown.gov.za](mailto:Ian.Gildenhuis@capetown.gov.za)



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**From:** Jessica [mailto:jessica@ecoimpact.co.za]  
**Sent:** 29 January 2019 04:04 PM  
**To:** Ian Gildenhuis; Lynelle Matthys; Rowan Carolus; Ed Filby  
**Cc:** 'Derrick Nel'; 'Nicolaas Hanekom'  
**Subject:** RE: Proposed polystyrene plant in Atlantis - Swartland

Many thanks Ian

Much appreciated

Kind regards,

**Jessica Hansen**  
Head of Training  
ISO 50001 Energy Expert  
Pri.Sci.Nat 400192/16

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**From:** Ian Gildenhuis <[Ian.Gildenhuis@capetown.gov.za](mailto:Ian.Gildenhuis@capetown.gov.za)>

**Sent:** Tuesday, 29 January 2019 3:52 PM

**To:** Jessica <[jessica@ecoimpact.co.za](mailto:jessica@ecoimpact.co.za)>; Lynelle Matthys <[Lynelle.Matthys@capetown.gov.za](mailto:Lynelle.Matthys@capetown.gov.za)>; Rowan Carolus <[rowan.carolus@capetown.gov.za](mailto:rowan.carolus@capetown.gov.za)>; Ed Filby <[Ed.Filby@capetown.gov.za](mailto:Ed.Filby@capetown.gov.za)>

**Cc:** 'Derrick Nel' <[derrick.nel@Swartland.co.za](mailto:derrick.nel@Swartland.co.za)>; 'Nicolaas Hanekom' <[nicolaas@ecoimpact.co.za](mailto:nicolaas@ecoimpact.co.za)>

**Subject:** RE: Proposed polystyrene plant in Atlantis - Swartland

Good day Jessica

I have consulted my Colleagues at National DEA and requested their input. I await their response. My own interpretation is that yes, Category 6 applies, however given what is at stake I thought it prudent to get inputs from the Specialist Adviser at DEA.

As soon as I have his feedback I will advise.

Regards

Ian Gildenhuis  
Head Specialised Environmental Health  
City Health

246 Voortrekker Road, Vasco

**Tel:** 021 5905200

**Fax:** 021 590 5215

**Cell:** 0842200139

[Ian.Gildenhuis@capetown.gov.za](mailto:Ian.Gildenhuis@capetown.gov.za)



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**From:** Jessica [<mailto:jessica@ecoimpact.co.za>]  
**Sent:** 29 January 2019 02:22 PM  
**To:** Ian Gildenhuis; Lynelle Matthys; Rowan Carolus; Ed Filby  
**Cc:** 'Derrick Nel'; 'Nicolaas Hanekom'  
**Subject:** RE: Proposed polystyrene plant in Atlantis - Swartland

Good day All

When can we expect feedback regarding the below?

We would so very much appreciate feedback as you are aware we are on very strict deadlines.

Thanking you in advance,  
Kind regards,

**Jessica Hansen**  
Head of Training  
ISO 50001 Energy Expert  
Pri.Sci.Nat 400192/16



**Eco Impact Legal Consulting (Pty) Ltd**  
Reg: 2010/015546/07  
P.O. Box 45070      **Office:** +27 (0) 21 671 1660  
Claremont      **Fax:** +27 (0) 21 671 9976  
South Africa      **Email:** [jessica@ecoimpact.co.za](mailto:jessica@ecoimpact.co.za)  
7735      **Web:** [www.ecoimpact.co.za](http://www.ecoimpact.co.za)

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**From:** Jessica <[jessica@ecoimpact.co.za](mailto:jessica@ecoimpact.co.za)>  
**Sent:** Friday, 25 January 2019 11:20 AM  
**To:** 'Ian Gildenhuis' <[Ian.Gildenhuis@capetown.gov.za](mailto:Ian.Gildenhuis@capetown.gov.za)>; 'Lynelle Matthys' <[Lynelle.Matthys@capetown.gov.za](mailto:Lynelle.Matthys@capetown.gov.za)>; 'Rowan Carolus' <[rowan.carolus@capetown.gov.za](mailto:rowan.carolus@capetown.gov.za)>; [Ed.Filby@capetown.gov.za](mailto:Ed.Filby@capetown.gov.za)  
**Cc:** Derrick Nel <[derrick.nel@Swartland.co.za](mailto:derrick.nel@Swartland.co.za)>; Nicolaas Hanekom <[nicolaas@ecoimpact.co.za](mailto:nicolaas@ecoimpact.co.za)>  
**Subject:** Proposed polystyrene plant in Atlantis - Swartland  
**Importance:** High

Good day Ian and team

Thanks so much for meeting with us yesterday, we very much appreciated your guidance. As discussed, we initially were concerned about the trigger for an AEL due to the following clause "*Category 6: Organic Chemicals Industry: The production, or use in production of **organic chemicals** not specified elsewhere. All installations producing or **using more than 100 tons per annum** of any of the listed compounds*". But we would like to double check this.

**Process flow:**

I refer to the Technical drawing of Sunwell Global FEX150200XPS (Attached).  
The mixing station feeds into the primary extruder where by screw the polystyrene and master batch gets mixed and the necessary gasses get blown in (Not all gasses are being used it depends on the size product that we will run).

The primary extruder feeds into the secondary extruder where the product starts cooling down and feeds through a die and a calibre where the board will start to foam. From here on the board will travel over a long distance to cool down before the polystyrene will be planed, edged and trimmed to size. After this the product will travel over conveyers and be stacked and ready for shipment.

**In terms of all of the gasses/chemicals/substances to be stored and used on site, please see below:**

Resin to be made up of:

1. Polystyrene / Crystal Polystyrene (in the form of small spherical beads) – The MSDS does not provide any detail as to the composition. Polystyrene is an organic compound with the chemical formula: (C<sub>8</sub>H<sub>8</sub>)<sub>n</sub>. It is a synthetic aromatic hydrocarbon polymer made from the monomer styrene. Polystyrene can be solid or foamed. Polystyrene, a hard, transparent synthetic resin produced by the polymerization of styrene. **18048,00 kg/day**
2. Talc for Styrene - Hydrous magnesium silicate **192,00 kg/day**
3. Flame retardant - <45% Brominated SBSpolystyrene-polybutadiene- polystyrene/Benzene, ethenyl-, polymer with 1,3-butadiene, brominated & <10% Polvstvrene with 1,3-butadiene polymer & <5%Carbonato(2) hexadecahvdroxvbis(aluminium)hexamaqnesium **768,00 kg/day**
4. Colour - Blend of organic and inorganic pigments dispersed in an ethylene methylacrylate copolymer. Polymeric masterbatch consists of ethylene copolymer, PE wax, Zinc stearate, Titanium Dioxide Pigment White 6, Carbon Black Pigment Black 7, Pigment Yellow 191, and Calcium carbonate. **96,00 kg/day**
5. Process Aid – Zinc Oxide **96,00 kg/day**

Blowing Agent to be made up of:

6. CO<sub>2</sub> **248,24 kg/day**
7. Dimethyl ether(DME) aerosol grade **630,15 kg/day**
8. 152a (gas) – Difluoroethane **267,34 kg/day**
9. Ethanol - Ethyl alcohol of 99.99 % (volume) purity, denatured with 5 % (volume) ethyl acetate **343,72 kg/day**

All 9 MSDS's attached.

Please let me know if you require anything further to advise us as to whether an AEL is required.

Thanks in advance,  
Kind regards,

**Jessica Hansen**  
Head of Training  
ISO 50001 Energy Expert  
Pri.Sci.Nat 400192/16



**Eco Impact Legal Consulting (Pty) Ltd**  
Reg: 2010/015546/07  
P.O. Box 45070  
Claremont  
South Africa  
7735  
**Office:** +27 (0) 21 671 1660  
**Fax:** +27 (0) 21 671 9976  
**Email:** [jessica@ecoimpact.co.za](mailto:jessica@ecoimpact.co.za)  
**Web:** [www.ecoimpact.co.za](http://www.ecoimpact.co.za)

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