DEPARTMENT OF FORESTRY, FISHERIES AND THE ENVIRONMENT

NO. R. 6548 29 August 2025

NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT, 2004 (ACT NO. 39 OF 2004)

PROPOSED AMENDMENTS TO THE LISTED ACTIVITIES AND ASSOCIATED MINIMUM EMISSION STANDARDS IDENTIFIED IN TERMS OF SECTION 21 OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT, 2004 (ACT NO. 39 OF 2004)

I, Dion Travers George, Minister of Forestry, Fisheries and the Environment, hereby in terms of sections 21(1)(b), 32, 53(o), 55, 56, and 57 of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004), give notice of my intention to amend the list of activities which result in atmospheric emissions which have or may have a significant detrimental effect on the environment, including health, social conditions, economic conditions, ecological conditions or cultural heritage, as published under Government Notice No. R.893, Government Gazette No. 37054 of 22 November 2013, as set out in the Schedule hereto.

The purpose of the proposed amendments is to address regulatory shortfalls that were identified in the implementation of the existing Notice. The proposed amendments are required to improve the implementation of the currently regulated activities by:

- (i) improving the efficacy of implementation of the licensing and reporting functions;
- (ii) strengthening the pollution prevention and minimizing the emissions from the listed activities identified in terms of section 21 of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004).
- (iii) providing clarity for improvement of interpretation; and
- (iv) implementing court orders on specific sections.

Members of the public are invited to submit written representations or objections on the proposed amendments, within 30 (thirty) days from the date of the publication of this notice in the Government *Gazette*, or in a national newspaper, whichever date comes last, to any of the following addresses:

By post to: The Director-General: Department of Forestry, Fisheries and the Environment

Attention: Kgomotso Molokwane

Private Bag X477 PRETORIA 0001

By hand at: Ground Floor (Reception), 473 Steve Biko Road, Environment House, Arcadia, 0083

By email: KMolokwane@dffe.gov.za

Any enquiries in connection with the notice can be directed to Mr Rishaal Krishnanund at Tel: 012 399 9398/ Cell: 082 359 5792 or by email: RKrishnanund@dffe.gov.za or Kgomotso Molokwane at Tel: 012 399 9213/ Cell: 076 9407717 or by email: KMolokwane@dffe.gov.za

The Department of Forestry, Fisheries and the Environment complies with the protection of the Personal Information Act, 2013 (Act No. 4 of 2013), comments received and responses, therefore, may be collated into a comments and response report which will be made available to the public as part of the consultation process. If a commenting party has any objection to his or her name or the name of the represented company/organisation, being made publicly available in the comments and responses report, that objection should be highlighted in bold as part of the comments submitted in response to this Government Notice.

Comments received after the closing date may not be considered.

DR DION TRAVERS GEORGE

MINISTER OF FORESTRY, FISHERIES AND THE ENVIRONMENT

SCHEDULE

Definitions

1. In this Schedule, any word or expression to which a meaning has been assigned in the Act, bears that same meaning, and unless the context indicates otherwise –

"the Act" means the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004);

"the List" means the list of activities which result in atmospheric emissions which have or may have a significant detrimental effect on the environment, including health, social conditions, economic conditions, ecological conditions or cultural heritage, as published under Government Notice No. R.893, Government Gazette No. 37054 of 22 November 2013, in terms of section 21(1)(b) of the Act; and

"this Notice" includes the List.

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ANNEXURE A - METHODS FOR SAMPLING AND ANALYSIS
Repeal of the list of activities which result in atmospheric emissions which have or may have a significant
detrimental effect on the environment, including health, social conditions, economic conditions, ecological
conditions or cultural heritage, 2010
Short tittle and commencement";
Amendment of Part 1: Definitions, of the List
3. Part 1: Definitions of the List is hereby amended by —
3. Part 1. Definitions of the cist is hereby amended by —
(a) the insertion after the definition of "existing plant", of the following definition:
"existing small boiler" means any small boiler that was manufactured before 01 November 2013.; and
(b) the insertion after the definition of "new plant", of the following definition:
"new small boiler" means any small boiler manufactured after 01 November 2013.";
Herr sman boner intollis any small boner mandiatata antoi o i fresember no les s

Amendment of Part 2: General, of the List

- 4. Part 2 of the List: General, is hereby amended by
 - (a) the insertion after paragraph (1), of the following paragraph:
 - "(1A) All production, consumption, usage and processing rates/thresholds prescribed in this Notice refers to design rates/thresholds.; and
 - (b) the substitution for paragraph (3), of the following paragraph:
 - "(3) Normal start-up and shut-down period is limited to a period of 48 hours unless otherwise specified by the licensing authority.";

Amendment of Category 1 of the List

- 5. Category 1 of the List is hereby amended by the insertion after Subcategory 1.6, of the following subcategories:
 - "(7) Subcategory 1.7: Small boilers with cumulative capacity that is equal to or exceeds 50 MW net heat input per facility: Solid fuel-fired small boiler

Description	Small boilers fuelled with solid fuels.			
Application	All small boilers fuelled with hydrocarbon based solid fuel, excluding biomass.			
			Limit value (dry mg/	
Common name		Chemical symbol	status	Nm ³ at 273K; 101.3kPa and 10% O ₂)
Particulate matter		PM	New	120
			Existing	250
Sulphur dioxide		SO ₂	New	2800
			Existing	2800

- (a) The following transitional arrangements shall apply: -
 - (i) Where a person operates two or more small boilers with a combined design capacity that is equal to or greater than 50MW heat input installed within a facility, that was not required to obtain an atmospheric emission license at the date of promulgation of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence operates two or more small boilers with a combined capacity that is equal to or greater than 50MW heat input within a facility; that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric

emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.

(8) Subcategory 1.8: Small boilers with cumulative capacity that is equal to or exceeds 50 MW net heat input per facility: Liquid fuel-fired small boiler.

Description	Small boilers fuelled with liquid fuels.				
Application	All liquid fuel-fired small boilers				
Substance o	r mixture c	of substances	Small boiler	Limit value (dry mg/	
Common name		Chemical symbol	status	Nm³ at 273K; 101.3kPa and 3% O₂)	
Particulate matter		РМ	New	100	
			Existing	150	
Sulphur dioxide		SO ₂	New	500	
			Existing	3500	

- (a) The following transitional arrangements shall apply: -
 - (i) Where a person operates two or more small boilers with a combined design capacity that is equal to or greater than 50MW heat input installed within a facility, that was not required to obtain an atmospheric emission license at the date of promulgation of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence operates two or more small boilers with a combined capacity that is equal to or greater than 50MW heat input within a facility at the date of promulgation of this Notice; that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (9) Subcategory 1.9: Small boilers with cumulative capacity that is equal to or exceeds 50 MW net heat input per facility: Gaseous fuel-fired small boiler (using natural gas and liquefied petroleum gas)

Description	Small boilers fuelled with gaseous fuels.			
Application	All small boilers fuelled with low particulate matter content gaseous fuels.			
Substance or	mixture of substances	Small boiler		

Common name	Chemical symbol	status	Limit value (dry mg/ Nm³ at 273K; 101.3kPa and 3% O₂)
Particulate matter	PM	New	10
		Existing	20
Sulphur dioxide	SO ₂	New	35
		Existing	100

- (a) The following transitional arrangements shall apply: -
 - (i) Where a person operates two or more small boilers with a combined design capacity that is equal to or greater than 50MW heat input installed within a facility, that was not required to obtain an atmospheric emission license at the date of promulgation of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence operates two or more small boilers with a combined capacity that is equal to or greater than 50MW heat input within a facility; that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (10) Subcategory 1.10: Small boilers with cumulative capacity that is equal to or exceeds 50 MW net heat input per facility: Gaseous fuel-fired small boiler (using process gas)

Description	Small boilers fuelled with gaseous fuels.				
Application	All sma	All small boilers fuelled with gaseous fuels generated by industrial processes.			
Substan	ce or mix	ture of substances	Small boiler	Limit value (dry mg/ Nm³	
Common name		Chemical symbol	status	at 273K; 101.3kPa and 3% O ₂)	
Particulate matter		PM	New	90	
			Existing	130	
Sulphur dioxide		SO ₂	New	1000	
			Existing	3500	

(a) The following transitional arrangements shall apply: -

- No. 53241 85
- (i) Where a person operates two or more small boilers with a combined design capacity that is equal to or greater than 50MW heat input installed within a facility, that was not required to obtain an atmospheric emission license at the date of promulgation of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
- (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence operates two or more small boilers with a combined capacity that is equal to or greater than 50MW heat input within a facility; that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (11) Subcategory 1.11: Small boilers with cumulative capacity that is equal to or exceeds 50 MW net heat input per facility: Solid biomass fuel-fired small boiler.

Description	Small boilers fuelled with solid biomass fuels				
Application	All small boilers fuelled with biomass fuels				
Substance of	r mixture of	substances	Small boiler	Limit value (dry mg/	
Common name		Chemical symbol	status	Nm³ at 273K; 101.3kPa and 10% O ₂)	
Particulate matter		PM	New	120	
			Existing	250	
Sulphur dioxide		SO ₂	New	1000	
			Existing	1000	

- (a) The following transitional arrangements shall apply: -
 - (i) Where a person operates two or more small boilers with a combined design capacity that is equal to or greater than 50MW heat input installed within a facility, that was not required to obtain an atmospheric emission license at the date of promulgation of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence operates two or more small boilers with a combined capacity that is equal to or greater than 50MW heat input within a facility; that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.";

Amendment of Category 3 of the List

- **6.** Category 3 of the List is hereby amended by the substitution for Subcategory 3.6, of the following Subcategory:
 - "(6) Subcategory 3.6 Synthetic Gas Production and Cleanup

Description	The production and cleanup of a gaseous stream derived from coal gasification and includes gasification, separation and cleanup of a raw gas stream through a process that involves sulphur removal and Rectisol as well as the stripping of a liquid tar stream derived from the gasification process.				
Application	All installa	tions.			
Substance o	r mixture o	f substances	Plant Status	mg/Nm³ under normal	
Common name		Chemical symbol		conditions of 273 Kelvin and 101.3kPa.	
Hydrogen Sulphide		H ₂ S	New	600	
			Existing	4 200	
Total Volatile Organic Compounds		N/A	New	130	
			Existing	250	
Sulphur dioxide		00	New	500	
		SO ₂	Existing	3 500	

(a) The following special arrangement shall apply:

All the new and existing facilities must, within three (3) years of promulgation of this Notice, comply with the new hydrogen sulphide limit.";

Amendment of Category 4 of the List

- 7. Category 4 of the List is hereby amended by
 - (a) the substitution for the title of Subcategory 4.7, of the following tittle:
 - "(7) Subcategory 4.7: Electric Arc Furnaces (Primary and Secondary Furnaces, including Ladle furnaces)"; and
 - (b) the substitution for Subcategory 4.17, of the following Subcategory:
 - "17 Subcategory 4.17: Precious and Base Metal Production and Refining

Description:	The production or processing of precious and associated base metals through chemical treatment					
Application:	500 g of product pe	500 g of product per month				
Substance or mix	ture of substances	Plant	mg/Nm³ under normal conditions of			
Common name	Chemical symbol	status	273 Kelvin and 101.3 kPa.			
Davida data asatta	N/A	New	50			
Particulate matte	r N/A	Existing	100			

011.	OI.	New	50
Chlorine	Cl ₂	Existing	50
0.1.1	00	New	400
Sulphur dioxide	SO ₂	Existing	400
11 1	1101	New	30
Hydrogen chloride	HCI	Existing	30
	HF	New	30
Hydrogen fluoride		Existing	30
Δ	NH ₃	New	100
Ammonia		Existing	100
	NO _X	New	300
Oxides of nitrogen	expressed as NO ₂	Existing	500

(a) The following special arrangement shall apply:

Thermal treatment standard are not applicable to precious and base metal refining processes.."; and

(c) the substitution for Subcategory 4.21, of the following Subcategory:

"(21) Subcategory 4.21: Metal Recovery

Description:	waste material by		of scrap metal and/or material and neat (excluding secondary Aluminium ory 4.4 of the List)	
Application:	All installations.			
Substance or substan		Plant status	mg/Nm³ under normal conditions	
Common name	Chemical symbol	riant status	of 273 Kelvin and 101.3 kPa.	
D. C. Jakana Han	NUA	New	10	
Particulate matter	N/A	N/A Existing	25	
0 - 1	00	New	50	
Carbon monoxide	CO	Existing	75	
مانونونا المساملات	00	New	50	
Sulphur dioxide	SO ₂	Existing	50	
	NO _X	New	200	
Oxides of nitrogen	expressed as NO ₂	Existing	200	
The decision and the 200	HCI New Existing	New	10	
Hydrogen chloride		Existing	10	
Hardne was flaggisted	LIE.	New	1	
Hydrogen fluoride	HF	Existing	1	
		New	0.5	

Description:	waste material b		of scrap metal and/or material and neat (excluding secondary Aluminium ory 4.4 of the List)	
Application:	All installations.			
Substance or substan		Diant status	mg/Nm³ under normal conditions	
Common name	Chemical symbol	Plant status	of 273 Kelvin and 101.3 kPa.	
Sum of Lead, arsenic, antimony, chromium, cobalt, copper, manganese, nickel, vanadium	Pb+ As+ Sb+ Cr+ Co+ Cu + Mn+ Ni+ V	Existing	0.5	
	He	New	0.05	
Mercury	Hg	Existing	0.05	
O - desires The allieurs	Cd.Tl	New	0.05	
Cadmium Thallium	Cd+Tl	Existing	0.05	
Total organic	N1/A	New	10	
compounds	N/A	Existing	10	
•	NH ₃	New	10	
Ammonia		Existing	10	
			ng I-TEQ /Nm³ under normal conditions of 10% O ₂ , 273 Kelvin and 101.3 kPa.	
District and forces	DCDD/DCDF	New	0.1	
Dioxins and furans	PCDD/PCDF	Existing	0.1	

Amendment of Category 5 of the List

- 8. Category 5 of the List is hereby amended by
 - (a) the substitution for Subcategory 5.1, of the following Subcategory:
- "(1) Subcategory 5.1: Storage and /or handling of Ore and Coal

Description:	Storage and/or handling of ore and coal not situated in a mining area as defined in the Mineral and Petroleum Resources Development Act			
Application:	Locations design	Locations designed to hold or handle more than 100 000 tons per annum		
Substance or mixture	of substances	Plant	mg/Nm³ under normal conditions of	
Common name	Chemical symbol	status	273 Kelvin and 101.3 kPa.	
D#-II	NUA	New	а	
Dustfall	N/A	Existing	a	

^a three months' running average not to exceed limit value for adjacent land use according to dust control regulations promulgated in terms of section 32 of the NEM: AQA, 2004 (Act 39 of 2004), in eight principal wind directions.

Amendment of Category 6 of the List

9. Category 6 of the List is hereby amended by the substitution for Category 6 of the following Category:

"Category 6: Organic Chemicals Industry

(1) Subcategory 6.1: Combustion Installations

Description:	Combustion installations including furnaces, heaters and boilers with a design capacity equal to or greater than 50 MW heat input.			
Application:	All furnaces; heater	s and reacto	ors.	
Substance or mixt	ure of substances	Dlant		
Common name	Chemical symbol	Plant status	mg/Nm³ under normal conditions of 10% O ₂ , 273 Kelvin and 101.3 kPa.	
Particulate matter	NI/A	New	70	
	N/A	Existing	120	
	NO _X	New	400	
Oxides of nitroger	expressed as NO ₂	Existing	1700	
Outoboundiavida	00	New	1000	
Sulphur dioxide	SO ₂	Existing	1700	

(2) Subcategory 6.2: Production and or Use of Lower Olefins

Description:	The production of lower olefins from virgin naphtha, natural gas, and gas oil. The use of lower olefins in manufacturing processes.			
Application:	All installations producing more than 100 tons per annum of lower olefins. All installations using more than 100 tons per annum of lower olefins.			
Substance or m	ixture of s	substances	Dlant	mg/Nm³ under normal conditions of
Common name		Chemical symbol	Plant status	273 Kelvin and 101.3 kPa.
Total volatile	organic	NI/A	New	150
compounds (thermal)		N/A	Existing	150
Total volatile organic		NIZA	New	40 000
compounds (non - f			Existing	40 000

(a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—

Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.

- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used) –
 - (i) Storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Red	covery Units		
Application:	All loading/	All loading/ offloading facilities with a throughput greater than 50 000 m ³		
Substance	or mixture of	substances	Plant	mg/Nm³ under normal
Commor	name	Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.
		N/A	New	150

Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.		Existing	150
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOC's, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.";
- (3) Subcategory 6.3: Production and or Use of Aromatics

Description:	The production of aromatic compounds. The use of aromatic compounds in manufacturing processes (including production of cyclohexane).			
Application:	All installations producing more than 100 tons per annum of aromatic compounds. All installations using more than 100 tons per annum of aromatic compounds.			
Substance or m	ixture of s	substances	Plant	mg/Nm³ under normal conditions of
Common nai	me	Chemical symbol	status	273 Kelvin and 101.3 kPa.
Total volatile	organic	N/A	New	150
compounds (therma	I) N/A		Existing	150
Total volatile organic		NI/A	New	40 000
compounds (non-th			Existing	40 000

(a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—

- Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used) –
 - (i) Storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units		
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³		
Substance of	or mixture of substances		

Common name	Chemical symbol	Plant status	mg/Nm³ under normal conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds		New	150
from vapour recovery/ destruction units using thermal treatment.	N/A	Existing	150
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non-thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, the license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (4) Subcategory 6.4: Production and or Use of Oxygenated Compounds

Description:		The production of oxygenated compounds. The use of oxygenated compounds in manufacturing processes.				
Application:	All installations producing more than 100 tons per annum of oxygenated compounds. All installations using more than 100 tons per annum of oxygenated compounds.					
Substance or m	ixture of	substances	Plant	mg/Nm³ under normal conditions of		
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.		
Total volatile	organic		New	150		
compounds (thermal)		N/A	Existing	150		
Total volatile organic N/A		New	40 000			
compounds (non-th	ermal)	IV/A	Existing	40 000		

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) Storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units						
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³						
Substance	or mixture of subs	stances	Dlant	mg/Nm³ under normal			
Common name		Chemical symbol	Plant status	conditions of 273 Kelvin and 101.3 kPa.			
Total volatile organic compounds			New	150			
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150			
Total volatile organic compounds from vapour recovery/ destruction units using non thermal treatment.			New	40 000			
		N/A	Existing	40 000			

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.

(5) Subcategory 6.5: Production and or Use of Nitrogenated Compounds

D		roduction cturing pro		•	ed compounds	(excluding	explosive
Description:	The use	e of nitroge ve manufac	nated cturin	d compound g processe			
Application:	compou	ınds. allations u		_	nan 100 tons per		_
Substance or m	ixture of	substance	es	Plant	mg/Nm³ under	normal con	ditions of
Common na	me	Chemic symbo		status		n and 101.3	

Description:	The production of nitrogenated compounds (excluding explosive manufacturing processes). The use of nitrogenated compounds in manufacturing processes (excluding explosive manufacturing processes).						
Application:	compou All insta	All installations producing more than 100 tons per annum of nitrogenated compounds. All installations using more than 100 tons per annum of nitrogenated compounds.					
Acrylonitrile		CH2CHCN	New		5		
•			Existing		5		
Methylamines	(from		New		10		
nitrogen- containing organic chemicals)		CH ₅ N	Existing		10		
Total volatile	Total volatile organic		New		150		
compounds (thermal)		N/A	Existing		150		
Total volatile organic		NI/A	New		40 000		
compounds (non-the	ermal)	N/A	Existing	40 000			

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units						
Application:	All loading/ offlo	All loading/ offloading facilities with a throughput greater than 50 000 m ³					
Substance of	or mixture of subs	stances	Plant	mg/Nm³ under normal			
Common name		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.			
Total volatile organic compounds		New	150				
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150			
Total volatile organic compounds from vapour recovery/ destruction units using non thermal treatment.			New	40 000			
		N/A	Existing	40 000			

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (6) Subcategory 6.6: Production and or Use of Halogenated Compounds

Description:	Production of halogenated compounds. The use of halogenated compounds in manufacturing processes.					
Application:	compou All insta	All installations producing more than 100 tons per annum of halogenated compounds. All installations using more than 100 tons per annum of halogenated compounds.				
Substance or m	ixture of	substances	Plant	mg/Nm³ under normal conditions of		
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.		
Sulphur trioxide	(from	SO ₃	New	30		
sulphonation prod	esses)		Existing	100		
Acrylonitrile	(from		New	5		
processes producing and/or using acrylonitrile).		CH ₂ CHCN	Existing	5		
Methylamines	(from		New	10		
nitrogen- containing chemicals)	organic	CH₅N	Existing	10		
Total volatile	organic	N1/A	New	150		
compounds (thermal)		Existing	150			
Total volatile organi		N/A	New	40 000		
compounds (non-th	compounds (non-thermal)		Existing	40 000		

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3

Type 3: Above 14 kPa and up to 91	a. External floating-roof tank with primary rim seal and
kPa with a throughput greater than	secondary rim seal for tank with a diameter greater
50'000 m³ per annum	than 20m, or
·	b. fixed-roof tank with internal floating deck / roof fitted
	with primary seal, or
	c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units						
Application:	All loading/ offlo	All loading/ offloading facilities with a throughput greater than 50 000 m ³					
Substance	or mixture of subs	stances	Diant	mg/Nm³ under normal			
Common name		Chemical symbol	Plant status	conditions of 273 Kelvin and 101.3 kPa.			
Total volatile organic compounds		Nev	New	150			
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150			
Total volatile organic compounds from vapour recovery/ destruction units using non thermal treatment.			New	40 000			
		N/A	Existing	40 000			

(ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.

- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, the license holder must, within 12 months of the promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.

(7) Subcategory 6.7: Production and or Use of Sulphur Containing Compounds

Description:	The use	Production of sulphur containing organic compounds. The use of sulphur containing organic compounds in manufacturing processes.				
Application:	containii All insta	All installations producing more than 100 tons per annum of sulphur containing organic compounds. All installations using more than 100 tons per annum of sulphur containing organic compounds.				
Common name		Substances Chemical symbol	Plant status	mg/Nm³ under normal conditions of 273 Kelvin and 101.3 kPa.		
Sulphur trioxide (fro	Sulphur trioxide (from		New	30		
sulphonation proce	esses)	SO ₃	Existing	100		
Total volatile	organic	NI/A	New	150		
compounds (thermal)		N/A	Existing	150		
Total volatile organ	ic	N/A	New	40 000		
	mpounds (non-thermal)		Existing	40 000		

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

	All permanent immobile liquid storage facilities at a single		
Application	site with a combined storage capacity of greater than		
	1000 cubic meters.		

True vapour pressure of contents at product storage temperature	Type of tank or vessel		
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3		
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3		
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted 		
	with primary seal, or c. fixed-roof tank with vapour recovery system.		
Type 4: Above 91 kPa	Pressure vessel		

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units			
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³			
Substance	or mixture of subs	stances	Dlant	mg/Nm³ under normal
Common name		Chemical symbol	Plant status	conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds			New	150
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150
Total volatile organic compounds from vapour recovery/ destruction units using non thermal treatment.			New	40 000
		N/A	Existing	40 000

(ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted,

all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.

- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (8) Subcategory 6.8: Production and or Use of Organo-metallic Compounds

Description:	Production of organometallic compounds. The use of organometallic compounds in manufacturing processes.				
Application:	All installations producing more than 100 tons per annum of organometallic compounds. All installations using more than 100 tons per annum of organometallic compounds.				
Substance or mixture of substances Plant mg/Nm³ under normal condit				mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile	organic	NI/A	New	150	
compounds (thermal)		N/A	Existing	150	
Total volatile organi	Total volatile organic		New	40 000	
compounds (non-thermal)		N/A	Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units			
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³			
Substance of	mixture of subs	stances	Dlant	mg/Nm³ under normal
Common	Common name		Plant status	conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds		,	New	150
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150
Total volatile organic compounds from vapour recovery/ destruction units using non-thermal treatment.		N/A	New	40 000
			Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (9) Subcategory 6.9: Polymers Production of Polyolefins

Description:	The production of polyolefins.				
Application:	All installations producing more than 100 tons per annum of polyolefins.				
Substance or mixture of substances			Diant	(NI2	
Common name Chemica		Chemical symbol	Plant status	mg/Nm³ under normal conditions of 273 Kelvin and 101.3 kPa.	
Total volatile	organic	NI/A	New	150	
compounds (thermal)		N/A	Existing	150	
Total volatile organic		N/A	New	40 000	
compounds (non-thermal)			Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

	All permanent immobile liquid storage facilities at a single site
Application	with a combined storage capacity of greater than 1000 cubic
	meters.

True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units			
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³			
	or mixture of subs			mg/Nm³ under normal
Common name		Chemical symbol	Plant status	conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.		N/A	New	150
			Existing	150
Total volatile organic compounds			New	40 000
from vapour recovunits using non-the	very/ destruction	N/A	Existing	40 000

(ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting

pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.

- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (10) Subcategory 6.10: Polymers Production of Polysterene

Description:	The production of polysterene.				
Application:	All installations producing more than 100 tons per annum of polysterene.				
Substance or mixture of substances			Plant	mg/Nm³ under normal conditions of	
Common namo		Chemical symbol	Chemical status	273 Kelvin and 101.3 kPa.	
Total volatile organic compounds (thermal)		N/A	New	150	
			Existing	150	
Total volatile organic compounds (non-thermal)		N/A	New	40 000	
			Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.		
True vapour pressure of contents at product storage temperature	Type of tank or vessel		
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3		

Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as minimum, to prevent "breathing" losses, or as per Type		
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 		
Type 4: Above 91 kPa	Pressure vessel		

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
	or mixture of subs		Plant	mg/Nm³ under normal	
Common name Ch		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.	
Total volatile organic compounds			New	150	
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150	
Total volatile organic compounds from vapour recovery/ destruction units using non-thermal treatment.		N/A	New	40 000	
			Existing	40 000	

(ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.

- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (11) Subcategory 6.11: Polymers Production of Polyesters

Description:	The production of polyesters.				
Application:	All installations producing more than 100 tons per annum of polyesters.				
Substance or m	ixture of s	substances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical status		273 Kelvin and 101.3 kPa.	
Total volatile	volatilo organic		New	150	
compounds (thermal)		N/A	Existing	150	
Total volatile organic compounds (non-thermal)		N/A	New	40 000	
			Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3

Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 		
Type 4: Above 91 kPa	Pressure vessel		

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
	or mixture of subs	stances	Plant	mg/Nm³ under normal	
Common name		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.	
Total volatile organic compounds			New	150	
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150	
Total volatile organic compounds from vapour recovery/ destruction units using non-thermal treatment.		N/A	New	40 000	
			Existing	40 000	

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:

- (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
- (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.

(12) Subcategory 6.12: Polymers – Production of Polyamides

Description:	The production of polyamides.				
Application:	All installations producing more than 100 tons per annum of polyamides.				
Substance or m	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name Chemi		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Methylamines	(from	-	New	10	
nitrogen- containing organic chemicals)		CH₅N	Existing	10	
Total volatile organic compounds (thermal)		N/A	New	150	
			Existing	150	
Total volatile organic compounds (non-thermal)		N/A	New	40 000	
			Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3

Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	External floating-roof tank with primary rim sea secondary rim seal for tank with a diameter g than 20m, or	reater
30 000 III per amum	b. fixed-roof tank with internal floating deck / roo with primary seal, or	f fitted
	c. fixed-roof tank with vapour recovery system.	
Type 4: Above 91 kPa	Pressure vessel	

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
	or mixture of subs		Plant	mg/Nm³ under normal	
Common name Chemical symbol		status	conditions of 273 Kelvin and 101.3 kPa.		
Total volatile organic compounds			New	150	
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150	
Total volatile organic compounds from vapour recovery/ destruction units using non-thermal treatment.		N/A	New	40 000	
			Existing	40 000	

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:

- (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
- (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (13) Subcategory 6.13: Polymers Production of Polyvinyl Chloride

Description:	Production of vinyl chloride.				
Application:	All installations producing more than 100 tons per annum of vinyl chloride.				
Substance or m	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name Cher		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile organic compounds (thermal)		N/A	New	150	
			Existing	150	
Total volatile organic compounds (non-thermal)		N1/A	New	40 000	
		N/A	Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.		
True vapour pressure of contents at product storage temperature	Type of tank or vessel		
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type and 3		
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3		
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or 		

	c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
Substance	or mixture of subs	stances	Plant	mg/Nm³ under normal	
Common name		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.	
Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.			New	150	
		N/A	Existing	150	
Total volatile organic compounds from vapour recovery/ destruction units using non-thermal treatment.			New	40 000	
		N/A	Existing	40 000	

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must,

within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.

(14) Subcategory 6.14: Polymers – Production of Polyvinyl Acetate

Description:	The prod	The production of polyvinyl acetate			
Application:	All installations producing more than 100 tons per annum of polyvinyl acetate.				
Substance or m	ixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile organic compounds (thermal)		N/A	New	150	
			Existing	150	
Total volatile organic compounds (non-thermal)		N/A	New	40 000	
			Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.			
True vapour pressure of contents at product storage temperature	Type of tank or vessel			
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type and 3			
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as minimum, to prevent "breathing" losses, or as per Type			
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 			
Type 4: Above 91 kPa	Pressure vessel			

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
Substance of	or mixture of subs	stances	Plant	mg/Nm³ under normal	
Common name		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.	
Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.		-	New	150	
		N/A	Existing	150	
Total volatile organic compounds from vapour recovery/ destruction units using non-thermal treatment.			New	40 000	
		N/A	Existing	40 000	

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.

(15) Subcategory 6.15: Polymers – Production of Polyvinyl Alcohol

Description:	The prod	The production of polyvinyl alcohol.			
Application:	All installations producing more than 100 tons per annum of polyvinyl alcohol.				
Substance or m	ixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical status		273 Kelvin and 101.3 kPa.	
Total volatile organic compounds (thermal)		N/A	New	150	
			Existing	150	
Total volatile organic compounds (non-thermal)			New	40 000	
		N/A	Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:-
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

.,				
Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.			
True vapour pressure of contents at product storage temperature	Type of tank or vessel			
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3			
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as minimum, to prevent "breathing" losses, or as per Type			
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 			
Type 4: Above 91 kPa	Pressure vessel			

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere

- with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
Substance	or mixture of subs	stances		mg/Nm³ under normal	
Common name		Chemical symbol	Plant status	conditions of 273 Kelvin and 101.3 kPa.	
Total volatile organic compounds			New	150	
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150	
Total volatile organic compounds from vapour recovery/ destruction units using non-thermal treatment.			New	40 000	
		N/A	Existing	40 000	

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (16) Subcategory 6.16: Polymers Production of Polyacrylonitrile

Description:	The production of polyvinyl alcohol.
Application:	All installations producing more than 100 tons per annum of polyacrylonitrile.
Substance or n	nixture of substances

Common name	Chemical symbol	Plant status	mg/Nm³ under normal conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic	N/A	New	150
compounds (thermal)		Existing	150
Total volatile organic	N/A	New	40 000
compounds (non-thermal)		Existing	40 000

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater that 1000 cubic meters.	
True vapour pressure of contents at product storage temperature	Type of tank or vessel	
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3	
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3	
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 	
Type 4: Above 91 kPa	Pressure vessel	

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour

pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:

(i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units			
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³			
	Substance or mixture of substances			mg/Nm³ under normal
Common name		Chemical symbol	Plant status	conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.		-	New	150
		N/A	Existing	150
Total volatile organic compounds			New	40 000
from vapour reco	very/ destruction	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.1.
- (17) Subcategory 6.17: Polymers Production of Polytetrafluoro Ethylene

Description:	The proc	The production of polytetraflouro ethylene.		
Application:	All installations producing more than 100 tons per annum of polytetraflour ethylene.			
Substance or n	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of
Common na	ame	Chemical symbol	status	273 Kelvin and 101.3 kPa.
Total volatile	organic	N1/A	New	150
compounds (thern		N/A	Existing	150

Total volatile organic	organic N/A	New	40 000	
compounds (non-thermal)	N/A	Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a sing site with a combined storage capacity of greater the 1000 cubic meters.	
True vapour pressure of contents at product storage temperature	Type of tank or vessel	
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type and 3	
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3	
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 	
Type 4: Above 91 kPa	Pressure vessel	

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:

(i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units			
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³			
Substance or mixture of substances				mg/Nm³ under normal
Common nomo		Chemical symbol	Plant status	conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.		•	New	150
		N/A	Existing	150
Total volatile organic compounds			New	40 000
from vapour recovunits using non-the	/ery/ destruction	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (18) Subcategory 6.18: Polymers Production of Polymethyl Methacrylate

Description:	The production of polymethyl methacrylate.			
Application:	All installations producing more than 100 tons per annum of polymethyl methacrylate.			
Substance or m	ixture of s	substances	Plant	mg/Nm³ under normal conditions of
Common na	Chamical		status	273 Kelvin and 101.3 kPa.
Total volatile	organic	N1/A	New	150
compounds (therm	_	N/A	Existing	150
Total volatile organ	ranic		New	40 000
compounds (non-t		N/A	Existing	40 000

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a sir site with a combined storage capacity of greater to 1000 cubic meters.		
True vapour pressure of contents at product storage temperature	Type of tank or vessel		
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3		
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3		
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 		
Type 4: Above 91 kPa	Pressure vessel		

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units	
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Application: All loading/ offloading facilities to Substance or mixture of substances				hput greater than 50 000 m ³ mg/Nm ³ under normal
Common		Chemical symbol	Plant status	conditions of 273 Kelvin and 101.3 kPa.
Total volatile orga	nic compounds		New	150
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150
Total volatile organic compounds			New	40 000
from vapour recovunits using non-ther	ery/ destruction	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (iii) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (iv) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, the license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (19) Subcategory 6.19: Polymers Production of Emulsion Polymerised Styrene Butadiene Rubber

Description:	The production of emulsion polymerized butadiene rubber.			
Application:	All installations producing more than 100 tons per annum of of emulsion polymerized butadiene rubber.			
Substance or mixture of substances Chemical Symbol Plant		Dlont	mg/Nm³ under normal conditions of	
			status	273 Kelvin and 101.3 kPa.
Total volatile	organic	NIZA	New	150
compounds (thermal)		N/A	Existing	150
Total volatile organic		N/A	New	40 000
	compounds (non-thermal)		Existing	40 000

- Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units
	All to a time / office ding facilities with a throughput greater than 50,000 m ³
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³

Substance or mixture of subs	Plant	mg/Nm³ under normal	
Common name	Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds		New	150
from vapour recovery/ destruction units using thermal treatment.		Existing	150
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non-thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.1.
- (20) Subcategory 6.20: Polymers Production of Solution Polymerised Rubber Containing Butadiene

Description:	The production of solution polymerized rubber containing butadiene.				
Application:	All installations producing more than 100 tons per annum of solution polymerized rubber containing butadiene.				
Substance or m	ixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile organic compounds (thermal)		N/A	New	150	
			Existing	150	
Total volatile organic compounds (non-thermal)		N/A	New	40 000	
			Existing	40 000	

- Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³
Substance	or mixture of substances

Common name	Chemical symbol	Plant status	mg/Nm³ under normal conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds	N/A	New	150
from vapour recovery/ destruction units using thermal treatment.		Existing	150
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, a person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.

(21) Subcategory 6.21: Polymers – Production of Butadiene Rubber

Description:	The production of butadiene rubber.				
Application:	All installations producing more than 100 tons per annum of butadiene rubber.				
Substance or n	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile	organic N/A		New	150	
compounds (thermal)		N/A	Existing	150	
Total volatile organic compounds (non-thermal)		A 1 (A	New	40 000	
		N/A	Existing	40 000	

- Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.		
True vapour pressure of contents at product storage temperature	Type of tank or vessel		
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type and 3		
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3		
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 		
Type 4: Above 91 kPa	Pressure vessel		

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units	
Application:	All loading/ offloading facilities with a throughput greater than 50 000	m ³
Substance	or mixture of substances	3

Common name	Chemical symbol	Plant status	mg/Nm³ under normal conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds		New	150
from vapour recovery/ destruction units using thermal treatment.		Existing	150
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (22) Subcategory 6.22: Polymers Production of Ethylene- Propylene Diene Monomer Rubber

Description:	The prod	The production of solution ethylene propylene diene monomer rubber.			
Application:	All installations producing more than 100 tons per annum of ethylene propylene diene monomer rubber.				
Substance or m	ixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile	organic N/A		New	150	
compounds (thermal)		N/A	Existing	150	
Total volatile organic compounds (non-thermal)		N/A	New	40 000	
			Existing	40 000	

- Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.	
True vapour pressure of contents at product storage temperature	Type of tank or vessel	
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3	
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type	
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 	
Type 4: Above 91 kPa	Pressure vessel	

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³
Substance	or mixture of substances

Common name	Chemical symbol	Plant status	mg/Nm³ under normal conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds		New	150
from vapour recovery/ destruction units using thermal treatment.	N/A	Existing	150
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (iii) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (iv) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (23) Subcategory 6.23: Polymers Production of Isobutylene -Isoprene Rubber

Description:	The production of isobutylene- isoprene rubber.				
Application:	All installations producing more than 100 tons per annum of isobutylene-isoprene rubber.				
Substance or n	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile	Total volatile organic		New	150	
compounds (thermal)		N/A	Existing	150	
Total volatile organic compounds (non-thermal)		N/A Nev	New	40 000	
			Existing	40 000	

- Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units	
Application:	All loading/ offloading facilities	es with a throughput greater than 50 000 m ³
Substance	or mixture of substances	

Common name	Chemical symbol	Plant status	mg/Nm³ under normal conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds	N/A	New	150
from vapour recovery/ destruction units using thermal treatment.		Existing	150
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, a person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, the license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (24) Subcategory 6.24: Polymers Production of Isoprene Rubber

Description:	The production of isobutylene- isoprene rubber.			
Application:	All installations producing more than 100 tons per annum of isoprene rubbe			
Substance or n	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.
Total volatile	Fotal volatile organic		New	150
compounds (thermal)		N/A	Existing	150
Total volatile organic compounds (non-thermal)		N/A	New	40 000
			Existing	40 000

- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.		
True vapour pressure of contents at product storage temperature	Type of tank or vessel		
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3		
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3		
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal an secondary rim seal for tank with a diameter greate than 20m, or b. fixed-roof tank with internal floating deck / roof fitte with primary seal, or c. fixed-roof tank with vapour recovery system. 		
Type 4: Above 91 kPa	Pressure vessel		

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Rec			
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³			
	or mixture of	substances	Plant	mg/Nm³ under normal
Common name		Chemical symbol	status	conditions of 273 Kelvir and 101.3 kPa.
		N/A	New	150

Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.		Existing	150
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (25) Subcategory 6.25: Polymers Production of Chloroprene Rubber

Description:	The production of chloroprene rubber.			
Application:	All installations producing more than 100 tons per annum chloroprene rubber.			
Substance or n	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of
Common name		Chemical status	273 Kelvin and 101.3 kPa.	
Total volatile	organic	organic		150
compounds (thermal)		N/A	Existing	150
Total volatile organic compounds (non-thermal)		11/6	New	40 000
		NI/A	Existing	40 000

(a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—

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- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
Substance or mixture of substances			Plant	mg/Nm³ under normal	
Common	n name	Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.	
		N/A	New	150	

Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.		Existing	150
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (26) Subcategory 6.25: Polymers Production of Acrylonitrile- Butadiene Styrene

Description:	The production of acrylonitrile butadiene styrene.				
Application:	All installations producing more than 100 tons per annum of acrylonitrile butadiene styrene.				
Substance or n	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile organic compounds (thermal)		N/A	New	150	
			Existing	150	
Total volatile organic compounds (non-thermal)		N/A	New	40 000	
			Existing	40 000	

- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.	
True vapour pressure of contents at product storage temperature	Type of tank or vessel	
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3	
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3	
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 	
Type 4: Above 91 kPa	Pressure vessel	

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/	All loading/ offloading facilities with a throughput greater than 50 000 m ³			
Substance or mixture of substances			Plant	mg/Nm³ under normal	
Common name		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.	
		N/A	New	150	

Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.	Existing	150	
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non-thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, a person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (27) Subcategory 6.27: Production of Acrylonitrile- Butadiene Rubber

Description:	The proc	The production of acrylonitrile-butadiene rubber.			
Application:	All installations producing more than 100 tons per annum of isobutylene-isoprene rubber.				
Substance or n	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile	organic		New	150	
compounds (thermal)		N/A	Existing	150	
Total volatile organic compounds (non-thermal)		A1/A	New	40 000	
		N/A Exis	Existing	40 000	

(a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—

- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
Substance or mixture of substances			Plant	mg/Nm³ under normal	
Common n	n name	Chemical symbol	status	conditions of 273 Kelvir and 101.3 kPa.	
		N/A	New	150	

Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.		Existing	150
Total volatile organic compounds		New	40 000
from vapour recovery/ destruction units using non thermal treatment.	N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, a person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (28) Subcategory 6.28: Polymers Production of Synthetic Butadiene Rubber

Description:	The prod	The production of synthetic butadiene rubber.			
Application:	All installations producing more than 100 tons per annum of isobutylene-isoprene rubber.				
Substance or m	ixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile organic compounds (thermal)		N/A	New	150	
			Existing	150	
Total volatile organic compounds (non-thermal)		N/A	New	40 000	
			Existing	40 000	

- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.	
True vapour pressure of contents at product storage temperature	Type of tank or vessel	
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3	
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3	
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 	
Type 4: Above 91 kPa	Pressure vessel	

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Rec	overy Units			
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
Substance or mixture of substances Common name Chemical		Plant	mg/Nm³ under normal		
		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.	
		N/A	New	150	

Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.		Existing	150	
Total volatile organic compounds		New	40 000	
from vapour recovery/ destruction units using non thermal treatment.	N/A	Existing	40 000	

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, a person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (29) Subcategory 6.29: Polymers Production of Styrenic Block Copolymer

Description:	The production of styrenic block copolymer.					
Application:		All installations producing more than 100 tons per annum of styrenic block copolymer.				
Substance or m	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of		
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.		
Total volatile organic compounds (thermal)		N/A	New	150		
			Existing	150		
Total volatile organic compounds (non-thermal)		N1/6	New	40 000		
		NI/A —	Existing	40 000		

- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.		
True vapour pressure of contents at product storage temperature	Type of tank or vessel		
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type and 3		
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3		
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 		
Type 4: Above 91 kPa	Pressure vessel		

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
	or mixture of subs		Plant	mg/Nm³ under normal	
Common name		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.	
Total volatile organic compounds		•	New	150	
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150	
Total volatile organic compounds from vapour recovery/ destruction units using non thermal treatment.			New	40 000	
		N/A	Existing	40 000	

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, a person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (30) Subcategory 6.30: Polymers Production of Polyethylene Terephthalate Fibres

Description:	The production of polyethylene terephthalate fibres.				
Application:	All installations producing more than 100 tons per annum of any opolyethylene terephthalate fibres.				
Substance or m	ixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Total volatile organic compounds (thermal)		NI/A	New	150	
		N/A	Existing	150	
Total volatile organic compounds (non-thermal)		NI/A	New	40 000	
		N/A	Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
	or mixture of subs	stances	Plant	mg/Nm³ under normal	
Common name		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.	
Total volatile organic compounds			New	150	
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150	
Total volatile organic compounds from vapour recovery/ destruction units using non thermal treatment.			New	40 000	
		N/A	Existing	40 000	

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, a person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (31) Subcategory 6.31: Polymers Production of Viscose Fibres

Description:	The prod	The production of viscose fibres.			
Application:	All installations producing more than 100 tons per annum of any of visco fibres.				
Substance or n	nixture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
Common name		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Sulphur trioxide	Sulphur trioxide (from		New	30	
sulphonation processes)		SO ₃	Existing	100	
Total volatile	organic		New	150	
compounds (thermal)		N/A	Existing	150	
Total volatile organic compounds (non-thermal)		N1/A	New	40 000	
		N/A	Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a sing site with a combined storage capacity of greater that 1000 cubic meters.		
True vapour pressure of contents at product storage temperature	Type of tank or vessel		
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3		
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3		
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal at secondary rim seal for tank with a diameter great than 20m, or b. fixed-roof tank with internal floating deck / roof fitte with primary seal, or c. fixed-roof tank with vapour recovery system. 		
Type 4: Above 91 kPa	Pressure vessel		

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units
Describuon.	Vapodi Nocotori etitic

Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³				
Substance or mixture of substances			Plant	mg/Nm³ under normal	
Common	Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.		
Total volatile organic compounds from vapour recovery/ destruction units using thermal treatment.		N/A E	New	150	
			Existing	150	
Total volatile organic compounds from vapour recovery/ destruction units using non-thermal treatment.		New	40 000		
		N/A	Existing	40 000	

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (32) Subcategory 6.32: Production of Organic pigments and dyes

Description:	The production of organic pigments and dyes.				
Application:	All installations producing more than 100 tons per annum of organizations and dyes.				
Substance or mi	xture of s	ubstances	Plant	mg/Nm³ under normal conditions of	
	Common name Chemical symbol		status	273 Kelvin and 101.3 kPa.	
Sulphur trioxide	(from	00	New	30	
sulphonation proc		SO ₃ Existing		100	
Acrylonitrile	(from		New	5	
processes producing and/or using acrylonitrile).		r CH ₂ CHCN	Existing	5	
doning don promining	doning dolyloriding).		New	10	
		CH ₅ N Existing		10	
Total volatile	organic		New	150	
compounds (therma	· ·	N/A	Existing	150	

Total volatile organic	11/4	New	40 000	
compounds (non-thermal)	N/A	Existing	40 000	

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.		
True vapour pressure of contents at product storage temperature	Type of tank or vessel		
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3		
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3		
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 		
Type 4: Above 91 kPa	Pressure vessel		

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:

(i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units			
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³			
	or mixture of subs		Plant	mg/Nm³ under normal
Common name		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds			New	150
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150
Total volatile organic compounds			New	40 000
from vapour recovery/ destruction units using non-thermal treatment.		N/A	Existing	40 000

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, that person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.

(33) Subcategory 6.33: Production of Surface - active Agents and Surfactants

Description:	The production of surface-active agents and surfactants				
Application:	All installations producing more than 100 tons per annum of surface-active agents and surfactants.				
Substance or n	nixture of	substances	Plant	mg/Nm³ under normal conditions of	
Common name Chemica		Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Sulphur trioxide (from		200	New	30	
sulphonation pro		SO₃	Existing	100	

Acrylonitrile (from		New	5
processes producing and/or using acrylonitrile).	CH₂CHCN	Existing	5
	011.11	New	10
	CH₅N	Existing	10
Total volatile organic		New	150
compounds (thermal)	N/A	Existing	150
Total volatile organic	b.I.CA	New	40 000
compounds (non-thermal)	N/A	Existing	40 000

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater than 1000 cubic meters.
True vapour pressure of contents at product storage temperature	Type of tank or vessel
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system.
Type 4: Above 91 kPa	Pressure vessel

- (ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.
- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.

- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below -

Description:	Vapour Recovery Units				
Application:	All loading/ offlo	All loading/offloading facilities with a throughput greater than 50 000 m ³			
	or mixture of subs		Plant	mg/Nm³ under normal	
Common name		Chemical symbol	status	conditions of 273 Kelvin and 101.3 kPa.	
Total volatile organic compounds		•	New	150	
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150	
Total volatile organic compounds from vapour recovery/ destruction units using non thermal treatment.			New	40 000	
		N/A	Existing	40 000	

- (ii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, a person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, the license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.
- (34) Subcategory 6.34: Production and or Use of Carbon disulphide

Description:	Production of carbon disulphide. The use of carbon disulphide in manufacturing processes.
Application:	All installations producing more than 100 tons per annum of any of the listed compounds.

All instal compour		more than '	100 tons per annum of any of the listed
Substance or mixture of s	ubstances	Plant	mg/Nm³ under normal conditions of
Common name	Chemical symbol	status	273 Kelvin and 101.3 kPa.
Sulphur trioxide (from	SO ₃	New	30
sulphonation processes)		Existing	100
Total volatile organic	N/A	New	150
compounds (thermal)		Existing	150
Total volatile organic	N/A	New	40 000
compounds (non-thermal)		Existing	40 000

- (a) The following transitional arrangement shall apply for the storage and handling of raw materials, intermediate and final products with a vapour pressure greater than 14kPa at operating temperature:—
 - Leak detection and repair (LDAR) program approved by licensing authority to be instituted, by 01 January 2014.
- (b) The following special arrangements shall apply for control of TVOCs from storage of raw materials, intermediate and final products with a vapour pressure of up to 14kPa at operating temperature, except during loading and offloading. (Alternative control measures that can achieve the same or better results may be used)
 - (i) storage vessels for liquids shall be of the following type:

Application	All permanent immobile liquid storage facilities at a single site with a combined storage capacity of greater the 1000 cubic meters.			
True vapour pressure of contents at product storage temperature	Type of tank or vessel			
Type 1: Up to 14 kPa	Fixed-roof tank vented to atmosphere, or as per Type 2 and 3			
Type 2: Above 14 kPa and up to 91 kPa with a throughput of less than 50'000 m³ per annum	Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to prevent "breathing" losses, or as per Type 3			
Type 3: Above 14 kPa and up to 91 kPa with a throughput greater than 50'000 m³ per annum	 a. External floating-roof tank with primary rim seal and secondary rim seal for tank with a diameter greater than 20m, or b. fixed-roof tank with internal floating deck / roof fitted with primary seal, or c. fixed-roof tank with vapour recovery system. 			
Type 4: Above 91 kPa	Pressure vessel			

(ii) The roof legs, slotted pipes and/or dipping well on floating roof tanks (except for domed floating roof tanks or internal floating roof tanks) shall have sleeves fitted to minimise emissions.

- (iii) Relief valves on pressurised storage should undergo periodic checks for internal leaks. This can be carried out using portable acoustic monitors or if venting to atmosphere with an accessible open end, tested with a hydrocarbon analyser as part of an LDAR programme.
- (c) The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:
 - (i) All installations with a throughput of greater than 50'000 m³ per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units.
 - (ii) Emission limits are set out in the table below -

Description:	Vapour Recovery Units			
Application:	All loading/ offloading facilities with a throughput greater than 50 000 m ³			
	or mixture of subs		Plant	mg/Nm³ under normal
Common name		Chemical symbol	cal status	conditions of 273 Kelvin and 101.3 kPa.
Total volatile organic compounds			New	150
from vapour recovery/ destruction units using thermal treatment.		N/A	Existing	150
Total volatile organic compounds from vapour recovery/ destruction units using non-thermal treatment.			New	40 000
		N/A	Existing	40 000

- (iii) For road tanker and rail car loading / offloading facilities where the throughput is less than 50'000 m³ per annum, and where ambient air quality is, or is likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and / or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining TVOCs, with a collection efficiency of at least 95%, shall be fitted.
- (d) The following special arrangements shall apply for the administration of the Atmospheric Emission License of the listed activity affected by this Notice:
 - (i) Where a person is conducting a listed activity under Category 6 of this Notice, a person must, within 12 months of promulgation of this Notice, apply for an atmospheric emission license in terms of Chapter 5 of the Act.
 - (ii) Where a license holder of a provisional atmospheric emission licence or atmospheric emission licence is listed under Category 6 of this Notice, that license holder must, within 12 months of promulgation of this Notice, submit the provisional atmospheric

emission license or atmospheric emission license for variation in terms of section 46 (1) (d) of the Act.";

Amendment of Category 7 of the List

10. Category 7 of the List is hereby amended by the substitution for Subcategory 7.2, of the following Subcategory:

"(2) Subcategory 7.2: Production of Acids

Description:	The production and/or use in manufacturing of hydrofluoric, hydrochloric, nitric and sulphuric acid (including oleum) in concentration exceeding 10%. Processes in which oxides of sulphur are emitted through the production of acid sulphites of alkalis or alkaline earths or through the production of liquid sulphur or sulphurous acid. Secondary production of hydrochloric acid through regeneration.				
Application:	All installations producing and/or using more than 100 tons per annum of any of the listed compounds (Excluding metallurgical processes-related activities regulated under category 4).				
Substance or mixture of substances				mg/Nm³ under normal	
Common name		Chemical symbol	Plant status	conditions of 273 Kelvin and 101.3 kPa.	
Total fluoride m	easured as		New	5	
Hydrogen Fluoride (from processes in which HF is evolved)		F as HF	Existing	30	
Hydrogen chloride (from primary		HCI	New	15	
production of hydrochloric acid)			Existing	25	
Hydrogen chloride (from secondary production; and use in manufacturing of hydrochloric acid)		HCI	New	30	
			Existing	100	
		00	New	350	
Sulphur dioxide		SO ₂	Existing	2800	
Sulphuric acid mist and sulphur trioxide expressed as SO ₃ (from processes in which SO ₃ is evolved).			New	25	
		SO₃	Existing	100	
Oxides of nitrogen expressed as NO ₂		NO _X	New	350	

Amendment of Category 9 of the List

11. Category 9 of the List is hereby amended by —

(a) the substitution for Subcategory 9.4, of the following Subcategory:

"(4) Subcategory 9.4: Chlorine Dioxide Plants

Description:	Production and or use of chlorine dioxide for pulp and/or paper production.			
Application:	All installations.			
Substance or mix	cture of substances	Plant	mg/Nm³ under normal conditions of	
Common name	Chemical symbol	status	273 Kelvin and 101.3 kPa.	
		New	15	
Hydrogen chloric	le HCI	Existing	30	

(b) the substitution for Subcategory 9.5, of the following Subcategory:

"(5) Subcategory 9.5: Wood Drying; and the Production of Manufactured Wood Products

Description: Application:	The drying of wood using directly fired kilns; and the manufacture of laminated and compressed wood products. All installations producing more than 10 tons per month.			
Substance or mixt		Plant	mg/Nm³ under normal conditions of	
Common name	Chemical symbol	status	10% O ₂ , 273 Kelvin and 101.3 kPa.	
	N/A	New	150	
Particulate matter		Existing	200	
	NOx	New	500	
Oxides of nitrogen		Existing	700	

Amendment of Category 10 of the List

12. Category 10 of the List is hereby amended by the substitution for Subcategory 10, of the following Subcategory:

"(1) Subcategory 10.1: Animal Matter Processing

Description:	Processes for the rendering cooking, drying, dehydrating, digesting, evaporating or protein concentrating of any animal matter not intended for human consumption.			
Application:	All installations han	All installations handling more than 1 ton of raw materials per day.		
Substance or mix	cture of substances	Plant	mg/Nm³ under normal conditions of,	
Common name	Chemical symbol	status	273 Kelvin and 101.3 kPa.	
Hydrogen Sulphi	de H ₂ S	New	5	

		Existing	5	
	NH ₃	New	10	
Ammonia		Existing	10	
Total Volatile Organic	N/A	New	10	
Compounds		Existing	10	

- (a) The following special arrangement shall apply -
 - (i) Best practice measures intended to minimize or avoid offensive odours must be implemented by all installations. These measures must be documented to the satisfaction of the Licensing Authority maybe submitted as part of odour management plan.
 - (ii) Process equipment emitting fugitive odorous substances shall be sealed or covered to channel the emissions to the extraction system which shall be connected to the odour abatement equipment.
- (b) The following transitional arrangement shall apply -
 - (i) All facilities that obtained environmental authorization before promulgation of this notice must, within 5 years of promulgation of this Notice comply with the Minimum Emissions Standards under this Category.

Facilities that obtain environmental authorization after the promulgation of this Notice must immediately comply with the Minimum Emission Standards under this Category.

	Dust fallout	SANS 1137/ASTM D1739	Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter)
Opacity	Opacity	USEPA Method 9	Visual determination of the opacity of emissions