
GOVERNMENT NOTICES GOEWERMENTSKENNISGEWINGS

DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND TOURISM DEPARTEMENT VAN OMGEWINGSKE EN TOERISME

No. 263

13 March 2009

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

THE IDENTIFICATION OF SUBSTANCES IN AMBIENT AIR AND ESTABLISHMENT OF NATIONAL STANDARDS FOR THE PERMISSIBLE AMOUNT OR CONCENTRATION OF EACH SUBSTANCE IN AMBIENT AIR

I, Marthinus Christoffel Johannes van Schalkwyk, Minister of Environmental Affairs and Tourism, hereby give notice in terms of section 57(1)(a) of the Act, of my intention to establish revised national ambient standards under section 9 of the Act. The proposed revised national ambient standards are set out in the Schedule hereto.

Members of the public are invited to submit to the Minister, within 60 days of publication of the notice in the *Gazette*, written representations on, or objections to, the proposed revised national ambient standards -

By post to: The Director-General: Environmental Affairs and Tourism,
Attention: Mr. Olebogeng Matshediso, Private Bag X447,
Pretoria, 0001

By fax to: (012) 320-1167; Attention: Mr. Olebogeng Matshediso

By e-mail to: OMatshediso@deat.gov.za

Any enquiries in connection with the draft national ambient standards can be directed to Mr Peter Lukey at (012) 310-3931 or Mr. Olebogeng Matshediso at (012) 310-3102.

Comments received after the closing date may not be considered.



MARTHINUS VAN SCHALKWYK, MP
MINISTER OF ENVIRONMENTAL AFFAIRS AND TOURISM

SCHEDULE

1. DEFINITIONS:

“averaging period” means a period of time over which an average value is determined.

“compliance date” means the date when compliance with the standard is required.

“limit value” means the level fixed on the basis of scientific knowledge, with the aim of reducing harmful effects on human health (or the environment (or both)), to be attained within a given compliance period and not to exceed the number of permissible exceedences once attained.

“frequency of exceedence” means a frequency (number/time) related to a limit value representing the tolerated exceedence of that limit value, i.e. if exceedences of limit value are within the tolerances, then there is still compliance with the standard.

2. GENERAL

Reference conditions

Concentrations shall be expressed at a standardized temperature of 25 °C and a pressure of 101,3 kPa.

Reference methods

Where test methods are specified, any other method which can be demonstrated to give equivalent results may be used.

Ambient air quality measurement requirements

Assessment of all ambient pollutant concentrations shall be conducted in terms of section 5.2.13 of the 2007 National Framework for Air Quality Management (Notice No. 1138 of 2007).

3. NATIONAL STANDARDS FOR AMBIENT AIR QUALITY

3.1 National Ambient Air Quality Standards for Sulphur Dioxide (SO₂)

Averaging Period	Limit Value	Frequency of Exceedence	Compliance Date
1 hour	350 µg/m ³ (134 ppb)	88	Immediate
24 hours	125 µg/m ³ (48 ppb)	4	Immediate
1 year	50 µg/m ³ (19 ppb)	0	Immediate

The reference method for the analysis of SO₂ shall be ISO 6767.

3.2 National Ambient Air Quality Standards for Nitrogen Dioxide (NO₂)

Averaging Period	Limit Value	Frequency of Exceedence	Compliance Date
1 hour	200 µg/m ³ (106 ppb)	88	Immediate
1 year	40 µg/m ³ (21 ppb)	0	Immediate

The reference method for the analysis of nitrogen dioxide shall be ISO 7996.

3.3 National Ambient Air Quality Standards for Particulate Matter (PM₁₀)

Averaging Period	Limit Value	Frequency of Exceedence	Compliance Date
24 hour	75 µg/m ³	4	Immediate
1 year	40 µg/m ³	0	Immediate

The reference method for the determination of the PM₁₀ fraction of suspended particulate matter shall be EN 12341.

3.4 National Ambient Air Quality Standards for Ozone (O₃)

Averaging Period	Limit Value	Frequency of Exceedence	Compliance Date
8 hour (running)	120 µg/m ³ (61 ppb)	11	Immediate

The reference method for the analysis of ozone shall be the UV photometric method as described in ISO 13964.

3.5 National Ambient Air Quality Standards for Benzene (C₆H₆)

Averaging Period	Limit Value	Frequency of Exceedence	Compliance Date
1 year	5 µg/m ³ (1.6 ppb)	0	Immediate

The reference methods for the sampling and analysis of benzene shall either be EPA compendium method TO-14 A or method TO-17.

3.6 National Ambient Air Quality Standard for Lead (Pb)

Averaging Period	Limit Value	Frequency of Exceedence	Compliance Date
1 year	0.5 µg/m ³	0	Immediate

Averaging Period	Limit Value	Frequency of Exceedence	Compliance Date
The reference method for the analysis of lead shall be ISO 9855.			

3.7 National Ambient Air Quality Standards for Carbon Monoxide (CO)

Averaging Period	Limit Value	Frequency of Exceedence	Compliance Date
1 hour	30 mg/m ³ (26 ppm)	88	Immediate
8 hour (calculated on 1 hourly averages)	10 mg/m ³ (8.7 ppm)	11	Immediate
The reference method for analysis of CO shall be ISO 4224.			