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CONTENTS • INHOUD

No.

Page Gazette No. No.

GOVERNMENT NOTICE

Minerals and Energy, Department of

Government Notice

R. 1078 Petroleum Products Act (120/1997): Regulations: Petroleum products specifications and standards.....

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THE GOVERNMENT PRINTING WORKS

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GOVERNMENT NOTICE

DEPARTMENT OF MINERALS AND ENERGY

No. R. 1078

whither the

4 November 2005

PETROLEUM PRODUCTS ACT, 1977 (Act No. 120 of 1997).

REGULATIONS REGARDING PETROLEUM PRODUCTS SPECIFICATIONS AND STANDARDS

The Minister of Minerals and Energy has under section 12C (1)(e) and (f) of the Petroleum Products Act, 1977 (Act No.120 of 1977) made the regulations in the Schedule.

SCHEDULE

ARRANGEMENT OF REGULATIONS

| Definition | ns | | | | | 3 |
|----------------------|--------------------------|-------------------|-----------------------------------------|-------------|-----------------------------------------|---------------------------|
| STANDERS OF AN OLD | regulation | 90 E0 90 | 12 50 | (\$6 t) \$1 | | 6 |
| Petrol gra | des permitted | | | | ······· | 6 |
| | nes | # 2 | | | | |
| #1 47 TO NO. | ades permitted | | 89 | | | 8 |
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| Offences | and penalties | | | | | 15 |

| AN | NEXURE A | | •••••• | 16 |
|----|--------------------------------------|---|-------------|--------|
| A. | Coastal Region Magisterial Districts | | : •••••• | 16 |
| B. | Inland Region Magisterial Districts | | | 19 |
| AN | NEXURE B | | | 22 |
| AN | NEXURE C | , | | 23 |
| AN | NEXURE D | | | 24 |

Definitions

In these regulations any word or expression to which a meaning has been assigned in the Act shall have the meaning so assigned and unless the context otherwise indicates -

"the Act" means the Petroleum Products Act, 1977 (Act No. 120 of 1977), as amended;

"additive" means a chemical substance intentionally added to petroleum products in trace or small quantities in order to improve one or more of: the petroleum product's performance or storage stability, its performance in an engine or intended to reduce the emissions from an engine powered by that petroleum product;

"aromatics" means a group of hydrocarbons that contain a benzene skeleton in their molecular structure;

"biodiesel" means a biodegradable and renewable fuel or fuel additive for diesel engines derived from natural oils extracted from vegetable matter, and that conforms to South African National Standard, Automotive Biodiesel, SANS 1935;

"blend" means a mixture of two or more compatible petroleum products having different properties in order to produce an intermediate or final petroleum product with desired attributes;

"bowser" means an apparatus erected on a site for the purposes of pumping petrol or diesel from an underground tank and dispensing it into a motor vehicle;

"coastal zone" refers to magisterial districts listed in Annexure A as coastal;

"Controller" means the Controller of Petroleum Products as contemplated in section 3(1) of the Act;

"end-consumer" means a person acquiring a petroleum product for own use and consumption;

"grade" means the classification of a petroleum product according to its chemical composition and characteristics such as its RON rating, sulphur content, additives content and the quantity or proportion thereof;

"inland zone" refers to magisterial districts listed in Annexure A as inland;

"label" means a marking affixed to a bowser on a site that specifies the grade of petrol or diesel dispensed by that bowser;

"licensee" means a person to whom the Controller has issued a manufacturing, wholesale or retail licence in accordance with the provisions of the Act;

"low-emission diesel" means diesel used in underground mines with a sulphur content of not more than 0.005 percent by mass and conforms to the South African National Standard, 'Low-emission diesel fuel for use in underground mines', SANS 1755;

"low-sulphur grade diesel" means diesel with a sulphur content of not more than 0.005 percent by mass and conforms to the South African National Standard, "Automotive diesel fuel", SANS 342;

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lead, with a RON of either 93 or 95, otherwise referred to as "lead replacement

petrol" or "LRP";

"metal-free petrol" means petrol that does not contain any metal-based additives, with a RON of 91, 93 or 95, otherwise referred to as "unleaded petrol" or "ULP";

"MTBE" means methyl tertiary-butyl ether with a chemical composition of CH₃OC(CH₃)₃;

"RON" refers to research octane number, which is a measure indicating the capacity of petrol to prevent engine knocking at low speed;

"SANS" means South African National Standards published by the South African Bureau of Standards in terms of the Standards Act, 1993 (Number 29 of 1993) and a number occurring immediately after SANS means the numbered standard;

"standard grade diesel" means diesel with a sulphur content of not more than 0.05 percent by mass and conforms to the South African National Standard, 'Automotive diesel fuel', SANS 342;

"v/v" means volume for volume.

Scope of regulation

2 This regulation prescribes specifications and standards for petroleum products that may be sold in the Republic of South Africa.

Petrol grades permitted

- The permitted grades of petrol that may be sold to an end-consumer are restricted to-
 - (1) metal-free petrol with a RON of 91;
 - (2) metal-free petrol with a RON of 93;
 - (3) metal-free petrol with a RON of 95;
 - (4) metal-containing petrol with a RON of 93; and
 - (5) metal-containing petrol with a RON of 95;
 - (6) petrol grades with a RON of more than 95 provided that -
 - a) only licensed wholesalers may sell or provide such petrol;
 - b) such petrol grades are only sold to-
 - persons holding racing licences issued by the Motorsport South Africa; or
 - (ii) legal entities that manufacture motor vehicles where such petrol grades are used for testing purposes; and
 - c) such petrol grades are not stored, sold or provided from a site;
 - (7) petrol with lead additives for use in aeroplanes with internal combustion engines provided that
 - a) only licensed wholesalers may sell or provide such petrol;
 - b) such petrol is only sold to licensed owners or operators of aeroplanes with internal combustion engines for their own use;
 - c) such petrol is not stored, sold or provided from a site.
- 4 Permitted metal-free petrol grades must conform to South African National Standard, Unleaded Petrol, SANS 1598, provided that—

- (1) the RON rating must be 91, 93 or 95;
- (2) the maximum permitted traces of lead as contamination must not exceed 5 milligrams per litre;
- (3) the maximum permitted content of aromatics is 42% v/v;
- (4) the maximum permitted benzene content is 3% v/v.
- 5 Metal additives intended to enhance octane ratings or limit valve seat recession in internal combustion engines must only be used in metalcontaining petrol.
- 6 Permitted metal-containing petrol must conform to South African National Standard, Leaded Petrol, SANS 299 provided that—
 - (1) the RON rating must be either 95 or 93;
 - (2) the maximum permitted traces of lead as contamination must not exceed 5 milligrams per litre;
 - (3) manganese based additives must not exceed 18 milligrams per litre;
 - (4) potassium based additives must not exceed 10 milligrams per litre;
 - (5) phosphorous based additives must not exceed 14 milligrams per litre;
 - (6) only one of the additives referred to in sub-regulations (3), (4) and(5) is added to such petrol;
 - (7) the maximum permitted content of aromatics is 42% v/v; and
 - (8) the maximum permitted benzene content is 3% v/v.

Petrol zones

- 7 Permitted metal-free petrol grades may be sold throughout the Republic.
- 8 Metal-containing petrol with a RON of 95 must only be sold in the coastal zone.
- 9 Metal-containing petrol with a RON of 93 must only be sold in the inland zone.

Diesel grades permitted

- 10 The permitted grades of diesel that may be sold to an end-consumer are restricted to-
 - (1) standard grade diesel;
 - (2) low sulphur grade diesel;
 - (3) biodiesel; and
 - (4) low-emission diesel provided that -
 - a) only licensed manufacturers or wholesalers may sell or provide such diesel;
 - such diesel is only sold to end-consumers, that are licensed owners or operators of mines, for their own use;
 - c) such diesel is not stored, sold or provided from a site.
- 11 Permitted standard grade diesel must conform to South African
 National Standard, Automotive diesel fuel, SANS 342 provided that
 - (1) the sulphur content of such diesel is not more than 0.05% by mass;
 - (2) the polycyclic aromatic hydrocarbon content of such diesel is not more than 11% measured on a mass for mass basis; and
 - (3) such diesel is blended with not more than 5% biodiesel.
- 12 Permitted low sulphur grade diesel must conform to South African National Standard, Automotive diesel fuel, SANS 342 provided that –
 - the sulphur content of such diesel is not more than 0.005% by mass;
 - (2) the polycyclic aromatic hydrocarbon content of such diesel is not more than 11% measured on a mass for mass basis; and
 - (3) such diesel is blended with not more than 5% biodiesel.
- 13 Permitted low-emission diesel must conform to South African National Standard, Low-emission diesel fuel for use in underground mines, SANS 1755, provided that –

- (1) the sulphur content of such diesel is not more than 0.05% by mass;
- (2) the polycyclic aromatic hydrocarbon content of such diesel is not more than 11% measured on a mass for mass basis; and
- (3) such diesel is blended with not more than 5% biodiesel.
- 14 Permitted biodiesel conforms to South African National Standard, Automotive biodiesel, SANS 1935.

Prohibition of certain activities

- 15 The sale of petroleum products that do not comply with specifications and standards contemplated in this Regulation is prohibited.
- 16 Offering for sale, selling or providing one grade of petrol or diesel as another grade of petrol or diesel, as the case may be, subject to the provisions of this Regulation is prohibited.
- 17 Offering for sale, selling or providing -
 - (1) any blend or mixture of different petroleum products; or
 - (2) any blend or mixture of different petroleum products with other substances;
 - for the purposes of evading the payment of any tax, duty or levy is prohibited.
- 18 Offering for sale, selling or providing metal-free petrol or metalcontaining petrol, which contains lead additives, subject to the provisions of this Regulation, is prohibited.
- 19 Offering for sale, selling or providing metal-free petrol or metalcontaining petrol, which contains MTBE additives, subject to the provisions of this Regulation, is prohibited.

Inspection and testing of petroleum products

20 An inspector appointed in accordance with the provisions of section 3 of the Act, may –

- (1) enter and search without a warrant any premises, any vehicle, vessel or aircraft and any receptacle of whatever nature;
- (2) seize, without a warrant, a whole batch or a sample of any petroleum product for purposes of monitoring or verifying compliance with the provisions of this Regulation;
- (3) from time to time, for purposes of monitoring compliance with this Regulation, sample and test petroleum products in accordance with the methods specified in SANS 299, SANS 1598, SANS 1754, SANS 464, SANS 342 or SANS 1935, as appropriate;
- (4) appoint suitably qualified experts to test petroleum products;
- (5) demand of any person owning, offering for sale, selling or providing petroleum products governed by these regulations, a compliance certificate in respect of such petroleum products and such person must, if so instructed, provide the inspector with such certificate; and
- (6) demand of any person importing petroleum products governed by these regulations, any documentation associated with such importation and such person must, if so instructed, provide the inspector with such documentation.
- 21 The cost of sampling and testing contemplated in subregulations 20(2) and 20(3) must -
 - in the case of petroleum products manufactured in Republic of South Africa, be borne by the manufacturer of such petroleum product; and
 - (2) in the case of petroleum products imported into the Republic of South Africa, be borne by the wholesaler of such petroleum product.

Permits for deviation from specifications and standards

- 22 A licensee may apply in writing to the Controller for a permit to deviate from the specifications and standards of petroleum products governed by this Regulation.
- 23 Upon receipt of an application for a permit contemplated in sub regulation 22, the Controller must consider the application and consult the Minister in that regard.
- 24 In considering an application contemplated in regulation 22 the Controller must consider the urgency, health, safety, environmental, security, continuity of supply of petroleum products, national interest and logistical implications of granting or refusing such a permit.
- 25 A permit issued by the Controller permitting a licensee to deviate from the provisions of this Regulation must
 - (1) be in writing and signed by the Controller;
 - (2) specify the period for which the permit is valid and such period must not be longer than 60 days;
 - (3) specify the petroleum products for which the permit applies;
 - (4) specify the extent of the deviation from the provisions of this Regulation permitted; and
 - (5) specify such other conditions as the Controller may consider appropriate.
- 26 Notwithstanding any other penalty that may be imposed under the Act or any other law, the Controller may, in the event of non-compliance by a permit holder with any
 - (1) condition of a permit contemplated in regulation 25, terminate such permit; or
 - (2) provision of this Regulation, order the permit holder to terminate the distribution and sale of such non-compliant petroleum product, with immediate effect.

- 27 The Controller may not terminate a permit unless -
 - (1) the permit holder has been informed in writing of the intention to terminate such permit by
 - a) setting out the particulars of such failure or contravention; and
 - calling upon the permit holder to make representations that may be necessary, within 7 calendar days from the date of receipt of such notice;
 - (2) the Controller has considered -
 - a) any steps taken by the permit holder to remedy the noncompliance concerned or to prevent any such non-compliance from recurring; and
 - b) any other relevant matters submitted by way of representations.

Retail pump labelling

- 28 A bowser on a site must have a label affixed to it.
- 29 A label contemplated in regulation 28 must -
 - (1) have lettering and numbering in a font size of Arial 55;
 - (2) face the same direction as the information indicating the price of the petrol or diesel displayed on that bowser; and
 - (3) be positioned not more that 20 centimetres above or below the information displaying the price of the petrol or diesel dispensed from that bowser.
- 30 The petrol or diesel grade dispensed from a bowser must be the petrol or diesel grade specified in the label affixed to that bowser.
- 31 The label to be affixed to a bowser dispensing a metal-free petrol grade must be white lettering and numbering on a green background.
- 32 The label to be affixed to a bowser dispensing metal-free petrol grade RON 95 must contain only the words and numbers "Unleaded Petrol 95 Metal-free."

- 33 The label to be affixed to a bowser dispensing metal-free petrol grade RON 93 must contain only the words and numbers "Unleaded Petrol 93 Metal-free."
- 34 The label to be affixed to a bowser dispensing metal-free petrol grade RON 91 must contain only the words and numbers "Unleaded Petrol 91 Metal-free."
- 35 The label to be affixed to a bowser dispensing a metal-containing petrol grade must be white lettering and numbering on a red background.
- 36 The label to be affixed to a bowser dispensing metal-containing petrol grade RON 95 must contain only the words and numbers "Lead Replacement Petrol 95 X based," where X is represented as either "manganese" or "potassium" or phosphorus" as appropriate for the type of petrol dispensed from that bowser.
- 37 The label to be affixed to a bowser dispensing metal-containing petrol grade RON 93 must contain only the words and numbers "Lead replacement petrol 93 X based," where X is represented as either "manganese" or "potassium" or phosphorus" as appropriate for the type of petrol dispensed from that bowser.
- 38 The label to be affixed to a bowser dispensing a diesel grade must be white lettering and numbering on a black background.
- 39 The label to be affixed to a bowser dispensing standard grade diesel must contain only the words "Standard diesel."
- 40 The label to be affixed to a bowser dispensing low sulphur grade diesel must contain only the words "Low sulphur diesel."

Records to be kept by licensees

- 41 A licensee must keep records of purchase and sale transactions of petroleum products including
 - (1) the grade of petroleum product;

- (2) the quantity of petroleum product;
- (3) in the case of a purchase of a batch of petroleum product, the documentation by which the physical receipt of a petroleum product can be linked to the order, purchase and payment for that batch of petroleum product;
- (4) the results of any tests performed on a batch of petroleum product, including the details of that batch and the date of each test;
- (5) the testing method used;
- (6) the record by which the petroleum product tested can be traced back to its delivery docket; and
- (7) the port of entry, in the case of a batch of imported petroleum product.
- 42 The records contemplated in regulation 41 must be -
 - (1) retained for 5 years; and
 - (2) disclosed to an inspector on request.

Transitional provisions and commencement

- 43 This Regulation comes into effect on 1 January 2006 provided that-
 - (1) the provisions of regulations 4(2) and 6 commence on the first Wednesday in April 2006;
 - (2) the provisions of regulations 11, 12, 13 and 14 commence on the first Wednesday in March 2006;
 - (3) the provisions of this Regulation relating to the labelling of petrol bowsers commence when the petrol dispensed by a bowser conforms to one of the permitted grades of petrol, or on the first Wednesday in April 2006, whichever event occurs first provided that before that event the label on bowsers dispensing metal-containing petrol must state "Lead replacement petrol 95 contains metals" or "Lead replacement petrol 93 contains metals" as the case may be; and

- (4) the provisions of this Regulation relating to labelling of diesel bowsers commence when the diesel dispensed by a bowser conforms to one of the permitted grades of diesel, or on the first Wednesday in March 2006, whichever event occurs first.
- 44 A licensed manufacturer must not manufacture, after midnight on 31 December 2005
 - (1) any petrol grade that is not in compliance with this Regulation; and
 - (2) any diesel grade that is not in compliance with this Regulation.
- 45 A licensed manufacturer or wholesaler must not import petroleum products, after midnight on 31 December 2005, that are not in compliance with this Regulation.

Offences and penalties

46 Any person performing a prohibited action or committing an offence under this Regulation shall be deemed to have committed an offence under the Act.

ANNEXURE A

A. Coastal Region Magisterial Districts

| NORTHERN C | | | | |
|------------|------------|--------------|---------------|------------|
| Calvinia | Carnarvon | Clanwillians | Namaqualand | Fraseburg |
| Kenhardt | Sutherland | Vanrhynsdorp | Victoria West | Veredendal |
| Williston | | | 12 | |

| WESTERN CAPE | PROVINCE | | | |
|---------------|---------------|---------------|---------------|-------------|
| Beaufort West | Bellville | Bredasdorp | Caledon | Calitzdortp |
| Kenhardt | Sutherland | Vanrhynsdorp | Victoria West | Veredendal |
| Ceres | Clanwilliams | George | Heidelberg | Hermanus |
| Hopefield | Knysna | Kuilsriver | Ladismith | Laingsburg |
| Montague | Mooreesburg * | Mosselbay | Murraysburg | Oudshoorn |
| Paarl | Picketberg | Prince Albert | Riversdale | Robertson |
| Simonstown | Stellebosch | Swellendam | Uniondale | Vredenburg |
| Vredendal | Wellington | Worcester | Wynberg | |

| EASTERN CAPI | 60 8966 | | | |
|--------------|----------|--------|------------|----------|
| Aberdeen | Adelaide | Albany | Alexandria | Barthust |
| Bedford | Bisho | Bizana | Cathcart | Centane |

| Cofimvaba | Cradock | Fort Beaufort | Gatyana | Gcuwa |
|-------------------|---------------|---------------|------------------|---------------|
| Glen Grey | Graaff Reinet | Hankey | Herschelle | Hewu?? |
| Humansdorp | Idutywa | Jansenville | Joubertina | Kieskamahoek |
| King Williamstown | Kirkwood | Komga | Lady Grey | Libode |
| Lusikisiki | Maluti | Mdantsane | Middledrift | Molteno |
| Mpofu | Mqanduli | Mt Ayliff | Mt Flecther | Murraysburg |
| Ngcobo | Nqamakwe | Ngqeleni | Pearston | Peddie |
| Port Elizabeth | Queenstown | Siphaqeni | Somerset East | Steytlerville |
| Stutterheim | Tabankulu | Tarka | Tsolo | Tsomo |
| Umzimkulu | Umzimvubu | Victoria | Willowmore | Xalanga |
| Xhora | No. 10 | | | |

| KWAZULU-NATAL PROVINCE | | | | | | |
|------------------------|-----------|------------|-----------------|------------------|--|--|
| Alfred | Babanango | Bergville | Danhaeuser | Dundee | | |
| Escourt | Eshowe | Glencoe | Hanover | Hlabisa | | |
| Impendle | Inanda | Ingwavuma | Ixopo | Klipriver | | |
| Kranskop | KwaMashu | Lion River | Lower Mfolozi | Lower Tugela | | |
| Mahlabathini | Mapumulo | Mooi River | Msinga | Mt Currie | | |
| Mtonjeni | Mtunzini | Ndwendwe | Newcastle | Ngotshe | | |
| Nkandla | Nongoma | Nqutu | Paulpietersburg | Pietermaritzburg | | |

| Piet Retief | Polina | Port Shepstone | Richmond | Ubombo |
|--------------|---------|-------------------|----------|---------|
| Umlazi | Umzinto | Underberg | Utrecht | Vryheid |
| Wakkerstroom | Weenen | | | PEE. |

| FREE STATE P | ROVINCE | (96) | | 17 | |
|--------------|---------|----------------|---|----|---------|
| Harrismith | | 10 (DAM) - COM | | 1 | 2 3 |
| Harrishin | | 8 | 1 | 2 | |

| MPUMALANGA PROVINCE | | | | | |
|---------------------|---------------------|-----------|-----------|------------|--|
| Barberton | Kwamhlaswa | Nelspruit | Nsikazi | Eerstehoek | |
| Pilgrims Rest | Pilgrims – Sabie | Volkrust | Witrivier | | |

| LIMPOPO PROVINCE | | | | | |
|------------------|-----------|------------|--------------|-----------|--|
| Bolobedu | Giyani | Malamulele | Mhala | Namakgale | |
| Letaba | Palaborwa | Ritavi | Soutspanberg | | |

B. Inland Region Magisterial Districts

| NORTHERN C | APE PROVING | CE | * | |
|--------------|-------------|-----------|--------------|--------------|
| Barkely West | Bethulie | Britstown | Colesburg | De Aar |
| Gordonia | Hanover | Hay | Herbert | Kenhardt |
| Kimberly | Kuruman | Noupoort | Phillipollis | Phillipstown |
| Posmasburg | Prieska | Richmond | Venterstad | Warrenton |

| EASTERN CA | PE PROVINCE | 1 1360 135 Mar | | |
|-------------|-------------|----------------------|--------------|--------|
| Albert | Alwal North | Baca | Barkley East | Elliot |
| Herschelle | Indwe | Lady Grey | Maclear | Qumbu |
| Sterkspruit | Steynsburg | Venterstad | Wood House | 8 |

| FREE STATE | PROVINCE | 9 9* | e3 28 | £ . |
|---------------|---------------|--------------|-----------|-------------|
| Bethlehem | Bethulie | Bloemfontein | Boshoff | Bothaville |
| Brandfort | Bultfontein | Clorcola | Clorcolan | Dewetshoop |
| Edenburg | Excelcior | Fauresmith | Fickburg | Fouriesburg |
| Frankfort | Heilbron | Hennenman | Hoopstad | Jacobsdal |
| Jagersfontein | Koffiefontein | Koppies | Kroonstad | Ladybrand |
| Lindley | Marquard | Odendaalrus | Parys | Petrusburg |
| Philipollis? | Reddersburg | Reitz | Rouxville | Sasolburg |

| Senekal | Smithfield | Thaba Nchu | Theunissen | Trompsburg |
|------------|---------------|----------------------|--------------|------------|
| Venterburg | Viljoonskroon | Virginia | Vrede | Vredefort |
| Welkom | Wepener | Wesselsbron | Wietsieshoek | Winburg |
| Zastron | V 2 V | 9. ³⁸ , 3 | 5 V 2 | - 17.,2.7% |

| NORTHWEST P | ROVINCE | | - W - H | |
|--------------|---------------|--------------|--------------|-----------------|
| Bafokeng | Bloemhof | Brits | Christiana | Coligny |
| Delareyville | Ditsobotla | Ganyesa | Hartswater | Klerksdorp |
| Koster | Kudumane | Lichtenburg | Madikwe | Mankwe |
| Marico | Molopo | Moretele | Potchestroom | Rustenburg |
| Schweizer | Reneke | Swartruggens | Taung | Ventersdorp |
| Vryburg | Wolmaransstad | | | Service Sylvery |

| GAUTENG PR | OVINCE | a s 5 5 5 | 80 N | |
|-------------|------------|------------|--------------|------------------|
| Alberton | Benoni | Boksburg | Brakpan | Bronkhorstspruit |
| Cullinan | Germiston | Heidelberg | Johannesburg | Kempton Park |
| Krugersdorp | Nigel | Oberholzer | Pretoria | Randburg |
| Randfontein | Roodepoort | Soshanguve | Springs | Vanderbijlpark |
| Vereeniging | Westonaria | Wonderboom | | |

| MPUMALANO | GA PROVINCE | 5 X* | | |
|------------|-------------|----------------|----------|----------|
| Amersfoort | Belfast | Bronkhorspruit | Carolina | Cullinan |
| Ermelo | Lydenburg | Middelburg | Moutjana | Moutse |
| Standerton | Volksrust | Witbank | | |

| LIMPOPO PRO | OVINCE | | | |
|--------------|---------------|----------|--------------|-------------|
| Bochum | Dzanani | Ellisras | Groblersdal | Habamoopo |
| Messina | Mokerong | Moretele | Nebo | Pietersburg |
| Potgieterust | Sekhukuneland | Seshego | Soutspanberg | Thabazimbi |
| Thohoyandou | Vuwani | Warmbad | Waterberg | |

| KWAZULU I | PROVINCE | | | : : 4 | 7 2 | 12 \$3 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----|----------|--------|--------|
| 100 miles 10 miles 20 | S 90 | - H | 10 | | | - 1 |
| Utrecht | Sa . | \$1 | | | a S | N - 40 |

Note: some magisterial districts contain both "coastal" and "inland" areas.

ANNEXURE B

Requirements for Metal-free petrol – for implementation 1st January 2006

| Property | Units | Limit | | SANS 1598 | | |
|-------------------------|---------|-------|---------|-----------|--|--|
| | | | 2006 | | | |
| Octane number, research | | min | 9 | 5, 93 91 | | |
| Aromatics | % (v/v) | max | 501-103 | 42 | | |
| Benzene | % (v/v) | max | | 3 | | |

ANNEXURE C

Requirements for Metal-containing petrol – for implementation 1st January 2006

| Property | Units | Limit | SANS 464 2006 |
|-------------------------|---------|-------|------------------|
| Octane number, research | | min | Coast: 95 |
| Metal Additives | | | Mar. |
| Manganese | Mg/L | max | 18 |
| Potassium | mg/L | max | 10 |
| Phosphorous | mg/L | max | 14 |
| Aromatics | % (v/v) | | 42 |
| Benzene | % (v/v) | max | 3 |

ANNEXURE D

Requirements for Diesel - for implementation 1st Jan 2006

| Property | Units | Limit | SABS 342 |
|----------------------------------|-------|-------|-------------|
| | | | 2006 |
| Sulphur Content: | 1+ | | |
| Standard | ppm | max | 500 |
| Low Sulphur Content | ppm | max . | 50 |
| Polycyclic Aromatic Hydrocarbons | % m/m | max | 11 |

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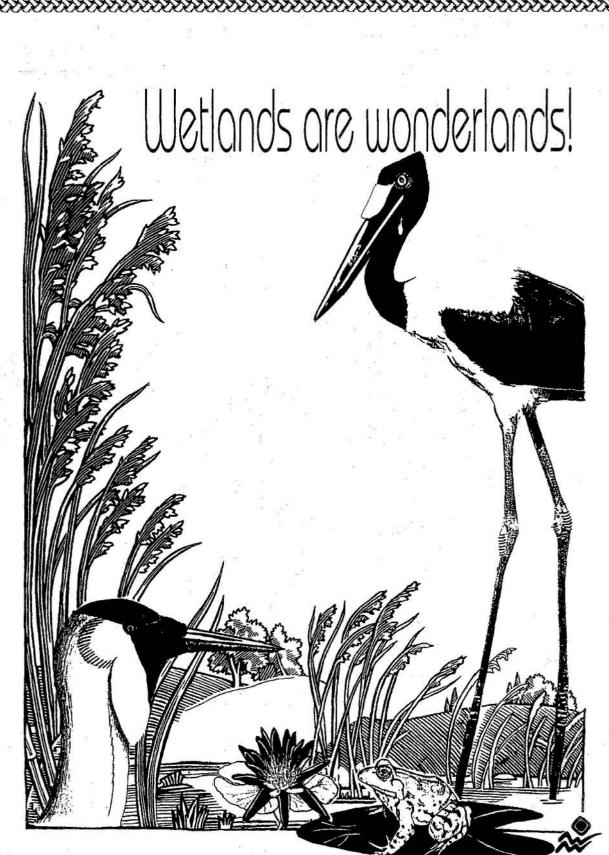
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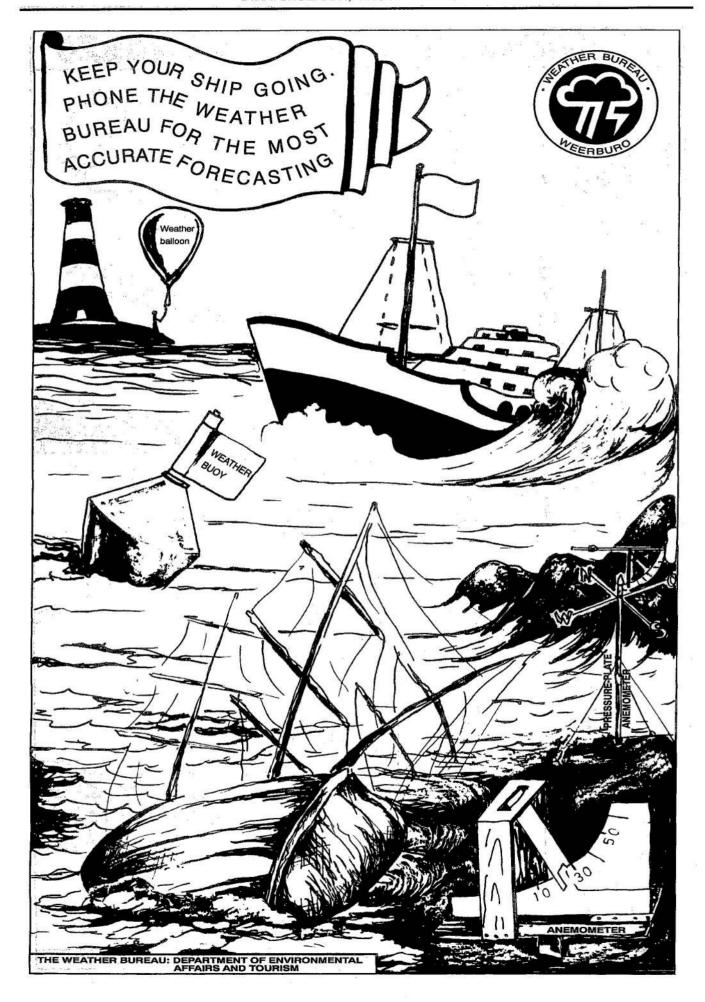
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