



Safety data sheet

According to 91/155 EEC

Printing date 07.07.2015

Revision: 07.07.2015

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** **POWER BOOST PETROL WITH OCTANE BOOSTER**
- **Article number:** 342
- **Application of the substance / the preparation**
Increased Octane number facilitates a higher compression ignition resulting in more power. Provides valve seat and upper cylinder protection. Reduces knock.
- **Details of the supplier of the safety data sheet**
- **Further information obtainable from:**
WYNN OIL SOUTH AFRICA (PTY) LTD
22 Mopedi Road,
Sebenza, Edenvale
1609
Gauteng
South Africa
Tel: 2711 609 3708
Fax: 2711 609 3708
techical@wynns.co.za
- **Emergency telephone number:** Tel: 2711 609 3708

2 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** -

- **Dangerous components:**

111-84-2	Nonane	Xn R65; N R51/53 R10 ----- H226; H304; H411; H401	40-60%
78-83-1	butanol	Xi R37/38-41 R10-67	5-15%
67-63-0	propan-2-ol	Xn R65; Xi R36/38; F R11; N R51/53	5-15%
12108-13-3	Fuel Additive	Xn R22-48; Xi R36/37/38 ----- H301; H315; H319; H335	0.1-1.0%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.

F; Highly flammable

R10: Flammable.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 2)



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Revision: 07.07.2015

Trade name: POWER BOOST PETROL WITH OCTANE BOOSTER

(Contd. of page 1)

- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
N/A
 - **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
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- **Label elements**
 - **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
 - **Code letter and hazard designation of product:**
Xn Harmful
F Highly flammable
N Dangerous for the environment
 - **Hazard-determining components of labelling:**
Nonane
propan-2-ol
 - **Risk phrases:**
10 Flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
 - **Safety phrases:**
2 Keep out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
46 If swallowed, seek medical advice immediately and show this container or label.
64 If swallowed, rinse mouth with water (only if the person is conscious).
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.

(Contd. on page 3)

ZA



Safety data sheet

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Revision: 07.07.2015

Trade name: POWER BOOST PETROL WITH OCTANE BOOSTER

(Contd. of page 2)

- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

78-83-1 butanol

OEL (South Africa)	Short-term value: 225 mg/m ³ , 75 ppm Long-term value: 150 mg/m ³ , 50 ppm
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67-63-0 propan-2-ol

OEL (South Africa)	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
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12108-13-3 Fuel Additive

OEL (South Africa)	Short-term value: 0.6 mg/m ³ Long-term value: 0.2 mg/m ³ Sk (as Mn)
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)



Safety data sheet

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Trade name: POWER BOOST PETROL WITH OCTANE BOOSTER

(Contd. of page 3)

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

· **Appearance:**

Form: Liquid
Colour: As per product specification

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 82 °C

· **Flash point:** 13 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 205 °C

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower: 0.7 Vol %
Upper: 12.0 Vol %

· **Vapour pressure at 20 °C:** 43 hPa

· **Density at 20 °C:** 0.859 g/cm³
 · **Relative density** Not determined.
 · **Vapour density** Not determined.
 · **Evaporation rate** Not determined.

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

(Contd. on page 5)

ZA



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Revision: 07.07.2015

Trade name: POWER BOOST PETROL WITH OCTANE BOOSTER

(Contd. of page 4)

- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 73.0 %
 - VOC (EC)** 73.00 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

67-63-0 propan-2-ol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** Acute

- **on the eye:** Minor

- **Sensitization:** Minor

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Ecotoxic effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

ZA

(Contd. on page 6)



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Revision: 07.07.2015




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(Contd. of page 5)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	N/A	
· ADR, IMDG, IATA	UN1993	
· UN proper shipping name	1993 FLAMMABLE LIQUID, N.O.S. (NONANES, ISOPROPANOL (ISOPROPYL ALCOHOL)), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (NONANES, ISOPROPANOL (ISOPROPYL ALCOHOL)), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (NONANES, ISOPROPANOL (ISOPROPYL ALCOHOL))	
· ADR		
· IMDG		
· IATA		
· Transport hazard class(es)	N/A	
· ADR, IMDG	 	
· Class		3 Flammable liquids.
· Label		3
· IATA		
· Class		3 Flammable liquids.
· Label		3
· Packing group	N/A	
· ADR, IMDG, IATA	II	
· Environmental hazards:	Product contains environmentally hazardous substances: Nonane	
· Marine pollutant:	Yes Symbol (fish and tree)	
· Special marking (ADR):	Symbol (fish and tree)	
· Special precautions for user	Warning: Flammable liquids.	
· Danger code (Kemler):	33	
· EMS Number:	F-E,S-E	
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	

(Contd. on page 7)

ZA



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(Contd. of page 6)

· **Transport/Additional information:**

· **ADR**

- | | |
|---------------------------|-----|
| · Limited quantities (LQ) | 1L |
| · Transport category | 2 |
| · Tunnel restriction code | D/E |

15 Regulatory information

· **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

Xn Harmful
F Highly flammable
N Dangerous for the environment

· **Hazard-determining components of labelling:**

Nonane
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· **Risk phrases:**

10 Flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.

· **Safety phrases:**

2 Keep out of the reach of children.
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· **National regulations:**

Class	Share in %
I	1.0
NK	73.0

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 8)

ZA



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(Contd. of page 7)

- R10 *Flammable.*
R11 *Highly flammable.*
R22 *Harmful if swallowed.*
R36/37/38 *Irritating to eyes, respiratory system and skin.*
R36/38 *Irritating to eyes and skin.*
R37/38 *Irritating to respiratory system and skin.*
R41 *Risk of serious damage to eyes.*
R48 *Danger of serious damage to health by prolonged exposure.*
R51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
R65 *Harmful: may cause lung damage if swallowed.*
R67 *Vapours may cause drowsiness and dizziness.*

· **Department issuing MSDS:**

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· **Contact: 2711 609 3708**

· *** Data compared to the previous version altered.**

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