



## SAFETY DATA SHEET

### 95 RON / 97 RON gasoline (containing up to 5% ethanol)



N : Dangerous for the environment



T : Toxic

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Commercial Product Name** : 95 RON / 97 RON gasoline (containing up to 5% ethanol)  
**Use of the Substance/Mixture** : Fuel  
**Company** : Mabanaft Ltd

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#### 2 HAZARDS IDENTIFICATION

**Most important hazards** : The product is classified as dangerous in accordance with Directive 1999/45/EC.  
Extremely flammable.  
Irritating to skin.  
May cause cancer.  
May cause heritable genetic damage.  
Harmful: may cause lung damage if swallowed.  
Vapours may cause drowsiness and dizziness.  
May cause harm to the unborn child.

#### Main symptoms

**Inhalation** : Vapours may cause drowsiness and dizziness.

**Skin contact** : Irritating to skin.

**Eye contact** : May be irritating.

**Ingestion** : May cause lung damage if swallowed.

**Environmental properties** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	Value(s)	CAS No	EC No	EC Index	CERTIFICATE
Gasoline	ca 95 %	86290-81-5	289-220-8	649-378-00-4	F+; R12 Carc. Cat. 2; R45 R46 Xn; R63



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#### 3 COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Xn; R65  
R67  
Xi; R38  
N; R51-53

Ethanol	:	ca 5 %	64-17-5	200-578-6	603-002-00-5	F; R11
Full text of R-phrases	:	See section 16.				

#### 4. FIRST AID MEASURES

##### First aid measures

##### Inhalation

: Keep at rest.  
Move to fresh air.  
Oxygen or artificial respiration if needed.  
Call a physician immediately.

: *Inhalation may provoke the following symptoms:*

: Vapours may cause drowsiness and dizziness.

##### Skin contact

: Wash off immediately with soap and plenty of water.  
Take off contaminated clothing and shoes immediately.  
Wash contaminated clothing before re-use.  
If skin irritation persists, call a physician.

: *Skin contact may provoke the following symptoms:*

: Irritating to skin.

##### Eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If eye irritation persists, consult a specialist.

: *Eye contact may provoke the following symptoms:*

: May be irritating.

##### Ingestion

: Do NOT induce vomiting.  
Drink plenty of water.  
Never give anything by mouth to an unconscious person.  
Consult a physician.

: *Ingestion may provoke the following symptoms:*

: May cause lung damage if swallowed.

##### Additional advice

: Never give anything by mouth to an unconscious person.  
Show this safety data sheet to the doctor in attendance.  
Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Fire Hazard

: Extremely flammable.

##### Suitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam

##### Extinguishing media which shall not be used for safety reasons

: High volume water jet

##### Specific hazards

: Evacuate personnel to safe areas.  
Fire or intense heat may cause violent rupture of packages.  
Cool containers / tanks with water spray.  
Vapours may form explosive mixture with air.  
Vapours are heavier than air and may spread along floors.  
Flash back possible over considerable distance.  
Possible decomposition products are: CO<sub>x</sub>  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



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#### 5. FIRE-FIGHTING MEASURES (continued)

**Special protective equipment for fire-fighters** : Wear personal protective equipment.  
Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** : See also section 8.  
Wear personal protective equipment.  
Do not breathe vapours or spray mist.  
Avoid contact with skin, eyes and clothing.  
Ensure adequate ventilation.  
Keep away from open flames, hot surfaces and sources of ignition.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
Vapours are heavier than air and may spread along floors.  
Vapours may form explosive mixture with air.  
Flash back possible over considerable distance.

**Environmental precautions** : Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up** : Remove all sources of ignition.  
Use only explosion-proof equipment.  
Prevent further leakage or spillage if safe to do so.  
Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel into suitable containers for disposal.  
Dispose of in accordance with local regulations.

#### 7. HANDLING AND STORAGE

**Storage** : Keep tightly closed in a dry, cool and well-ventilated place.  
Keep away from open flames, hot surfaces and sources of ignition.  
Do not store near or with any of the incompatible materials listed in section 10.

**Handling** : See also section 8.  
Wear personal protective equipment.  
Handle in accordance with good industrial hygiene and safety practice.  
Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
Do not breathe vapours or spray mist.  
Ensure adequate ventilation.  
Keep away from open flames, hot surfaces and sources of ignition.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
Do not burn, or use a cutting torch on, the empty drum.  
Do not puncture or incinerate.  
When using do not eat or drink.  
Always replace cap after use.

**Specific use(s)** : Fuel

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Personal protective equipment**

**Respiratory protection** : In case of insufficient ventilation wear suitable respiratory equipment. (type A1/A2/A3/P2; EN 141/136/140/137/143)

**Hand protection** : Rubber gloves (EN 374)- Nitrile rubber - PVC disposable gloves  
The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical



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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

	requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the gloves supplier.
<b>Eye protection</b>	: Safety glasses (EN166)
<b>Hygiene measures</b>	: Use only in area provided with appropriate exhaust ventilation. Wash hands and face before breaks and immediately after handling the product. Use only in an area equipped with a safety shower. Eye wash bottle with pure water Handle in accordance with good industrial hygiene and safety practice.
<b>Engineering measures</b>	: Ensure adequate ventilation.
<b>Environmental exposure controls</b>	: Gasoline : TLV-TWA (mg/m <sup>3</sup> ) : 5 (Belgium, United Kingdom, France, the Netherlands, Spain, Finland, Denmark, Norway); 1 (Sweden); 250 (UT4, Kraftstoff, Germany) Gasoline : TLV-STEL (mg/m <sup>3</sup> ) : 10 (Belgium, United Kingdom); 3 (Sweden) Ethanol : TLV-TWA (mg/m <sup>3</sup> ) : 260 (NL); 950 (NO); 960 (DE, CH,SK); 1000 (SE, CS, ET, LT, BG, LV, RU); 1900 (DA, FR, FI, GR, AT, HU, SL, HR, PL); 1907 (BE); 1910 (ES); 1920 (GB); 1000 ppm (PT) Ethanol : TLV-STEL (mg/m <sup>3</sup> ) : 1900 (LT, ET, NL, SE); 1920 (CH, SK, DE); 2500 (FI); 3000 (CS); 3800 (AT); 9500 (FR)

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	: liquid
<b>Colour</b>	: colourless - yellow
<b>Odour</b>	: petroleum hydrocarbon odour
<b>pH</b>	: no data available
<b>Boiling point/boiling range</b>	: ca 25 - 200°C
<b>Melting point/range</b>	: ca < -60°C
<b>Flash point</b>	: ca < -40°C
<b>Evaporation rate</b>	: no data available
<b>Vapour density</b>	: no data available
<b>Autoignition temperature</b>	: ca 280 - 470°C
<b>Explosive properties</b>	: no data available
<b>Oxidizing properties</b>	: no data available
<b>Vapour pressure</b>	: ca 350 - 900 hPa @ 37,8°C
<b>Relative density</b>	: ca 0,68 - 0,79 @ 15°C
<b>Water solubility</b>	: slight (30 - 100 mg/l @ 20°C)
<b>Viscosity</b>	: no data available
<b>Partition coefficient: n-octanol/water</b>	: 2,1 - 6

#### 10. STABILITY AND REACTIVITY

<b>Stability</b>	: Stable under normal conditions.
<b>Hazardous decomposition products</b>	: Carbon oxides
<b>Materials to avoid</b>	: Oxidizing agents
<b>Conditions to avoid</b>	: Heat, flames and sparks.



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#### 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	: • Gasoline : LD50/oral/rat = : > 5000 mg/kg • Gasoline : LD50/dermal/rat = : > 2000 mg/kg • Gasoline : LC50/inhalation/4h/rat = : > 5,2 mg/kg • Ethanol : LD50/oral/rat = : 1501 mg/kg • Ethanol : LC50/inhalation/4h/rat = : 124,7 mg/l
<b>Inhalation</b>	: Vapours may cause drowsiness and dizziness.
<b>Skin contact</b>	: Irritating to skin.
<b>Eye contact</b>	: Contact with eyes may cause irritation.
<b>Ingestion</b>	: Harmful: may cause lung damage if swallowed. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia.
<b>Chronic toxicity</b>	: May cause cancer. May cause heritable genetic damage. May cause harm to the unborn child.

#### 12. ECOLOGICAL INFORMATION

<b>Bioaccumulation</b>	: Does not bioaccumulate. log Pow = 2,1 - 6
<b>Ecotoxicity effects</b>	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. • Gasoline : LC50/96h/fish : 82 mg/l • Gasoline : EC50/48h/daphnia = : 7,6,mg/l • Gasoline : EC50/72h/algae = : 19 mg/l • Ethanol : LC50/96h/fish : 14200 mg/l (Pimephales promelas), 10000 - 11500mg/l (Alburnus alburnus) • Ethanol : EC50/48h/daphnia = : 9268 - 14221 mg/l (Daphnia magna)
<b>Mobility</b>	: slightly soluble
<b>Persistence and degradability</b>	: Inherently biodegradable.

#### 13. DISPOSAL CONSIDERATIONS

<b>Waste from residues / unused products</b>	: Dispose of in accordance with local regulations. Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate.
<b>Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC)</b>	: The following Waste Codes are only suggestions: 13 07 02* - petrol 15 01 10* - packaging containing residues of or contaminated by dangerous substances Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

#### 14. TRANSPORT INFORMATION

Class





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#### 14. TRANSPORT INFORMATION (continued)



<b>ADR/RID</b>	
<b>UN-Number</b>	: 1203
<b>Proper shipping name</b>	: GASOLINE
<b>Class</b>	: 3
<b>Packing group</b>	: II
<b>IMDG</b>	
<b>UN-Number</b>	: 1203
<b>Class</b>	: 3
<b>Packing group</b>	: II
<b>Proper shipping name</b>	: GASOLINE
<b>EmS</b>	: F-E, S-E
<b>ICAO</b>	
<b>UN-Number</b>	: 1203
<b>Class</b>	: 3
<b>Packing group</b>	: II
<b>Proper shipping name</b>	: GASOLINE

#### 15. REGULATORY INFORMATION

<b>Labelling</b>	: The product is classified as dangerous in accordance with Directive 1999/45/EC.
<b>Symbol(s)</b>	: T - Toxic F+ - Extremely flammable N - Dangerous for the environment
<b>R-phrase(s)</b>	: R12 - Extremely flammable. R38 - Irritating to skin. R45 - May cause cancer. R46 - May cause heritable genetic damage. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R63 - Possible risk of harm to the unborn child. R65 - Harmful: may cause lung damage if swallowed. R67 - Vapours may cause drowsiness and dizziness.
<b>S-phrase(s)</b>	: S36/37 - Wear suitable protective clothing and gloves. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). S53 - Avoid exposure - obtain special instructions before use. S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
<b>Contains</b>	: Gasoline
<b>WGK</b>	: 3



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#### 16. OTHER INFORMATION

<b>Text of R-phrases mentioned in Section 3</b>	: R11 - Highly flammable. R12 - Extremely flammable. R38 - Irritating to skin. R45 - May cause cancer. R46 - May cause heritable genetic damage. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R63 - Possible risk of harm to the unborn child. R65 - Harmful: may cause lung damage if swallowed. R67 - Vapours may cause drowsiness and dizziness.
<b>Sources of key data used to compile the Safety Data Sheet</b>	: European Chemicals Bureau CONCAWE (July 2005)

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The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 1967/548/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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