



SAFETY DATA SHEET

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Revision 05	GB Super Unleaded Petrol	Date Sept. 2008

1 Identification of the Substance/Preparation and Company

Supplier	GB Fuels
Address	Albany Road, Gateshead Tyne & Wear NE8 3BP
Contact Numbers	Telephone: 0191-4904311 Fax: 0191-4904329
Emergency Telephone No.	0191-4775000
Product Name:	GB Unleaded/Super Unleaded Petrol
Application:	To be used exclusively as fuel for spark ignition engines

2 Composition/Information on Ingredients

Chemical nature: Substances composed of paraffin hydrocarbons, Naphthalene ($\leq 35\%$) and olefin hydrocarbons ($\leq 18\%$), with mainly hydrocarbons from C4-C12, including benzene, toluene & n-hexane. Possibly: The following oxygenates compounds: Methanol $\leq 3\%$ vol. Iso-propyl alcohol $\leq 10\%$ Isobutyl alcohol $\leq 10\%$ vol. Terbutyl alcohol $\leq 7\%$ vol. Ethers (5 or more C atoms) including ETBE/MTBE $\leq 15\%$ vol. –multi-purpose additives to boost performance.

Composition comments	Classification	Concentration
Benzene	F, T :R11,45,46, R48/23/24/25, 65, 36/38	$\leq 1\%$ in volume
N-hexane	F,Xn,N:R11-R38,48/20,62,65,67,51/53	$< 5\%$ in volume
Toluene	Xn,Xi Rep. Cat 3 R11,48/20,65,48,38,67,63	$< 10\%$

Dangerous ingredients	Classification	Content	CAS No.	EC No.
Gasoline	T,F,N:R12,45,46,63,38,65,67,51/53	$> 90\%$	86290-81-5	289-220-8

3 Hazards Identification

Health Hazards:

Eyes: Likely to cause irritation if splashed into the eye with redness and stinging.

Skin: May cause irritation on brief or occasional contact; prolonged, repeated and heavy direct contact with the skin over a long period of time can cause defatting of the skin erythema, dermatitis, oil acne.

Inhalation: inhalation of fumes or vapours may have a narcotic effect on the nervous system may cause headaches, nausea, drowsiness and irritation to the breathing passages and lungs with possible effects to the central nervous system. As gasoline contains Benzene which is a known carcinogen continuous exposure to high levels of vapours may be toxic and in extreme cases may cause Leukaemia.

Ingestion: Likely to cause nausea and diarrhoea if small amounts are swallowed, larger amounts may effect the central nervous system. Signs and symptoms of central nervous system effects may include the following; headaches, dizziness, loss of appetite, weakness and loss of concentration. The product may be harmful due to the aspiration of the liquid into the lungs following ingestion which may cause chemical pneumonitis and can be fatal.

Extremely flammable liquid which is highly volatile and may form flammable or explosive vapour/air mixtures from uncontrolled releases.

This product is classified as Extremely flammable, Carcinogenic, Harmful & irritating and dangerous for the environment.



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4 First Aid Measures

- Ingestion:** Wash mouth out with water. Get medical advice immediately.
DO NOT INDUCE VOMITING BECAUSE OF THE DANGER OF ASPIRATION.
- Skin:** Wash skin as soon as possible with soap and water. Change contaminated clothing and laundry before reuse. Get medical advice.
Any injection of fuel under the skin should be considered an EMERGENCY – get Medical Advice URGENTLY.
- Eyes:** Wash out thoroughly with large amounts of water, for at least 15 minutes. If redness and/or irritation continues get medical advice.
- Inhalation:** In case of exposure to intense concentrations of vapours, fumes or spray move to fresh air. and allow to rest, seek medical attention immediately.

5 Fire Fighting Measures

- Extinguishers:** Foam, dry chemical powder, carbon dioxide, water spray
- Hazards:** Extremely flammable, high hazard. The liquid can release vapours at temperatures below ambient which form flammable mixtures. Vapours settle to ground level and may reach ignition sources remote from the point of escape via drains and other underground passages. Static discharge material can accumulate static charges which may cause an incendiary electrical discharge.
- Measures:** Use water fog or spray to cool fire exposed surfaces (containers) and to protect personnel. Only personnel trained in fire fighting should use water sprays (DO NOT USE WATER JETS). Respiratory and eye protection is essential for fire-fighting personnel exposed to smoke and fumes.

Hazardous decomposition products include smoke, sulphur oxides and carbon monoxide.

6 Accidental Release Measures

Treat any spillage as a fire hazard. Spray, vapour or mist can be a potential fire or explosion hazard.

- Personal Precautions:** Spilt product presents a significant slip hazard. Avoid exposure of the product to sources of ignition. Chemical grade safety Glasses/goggles. nitrile/PVC gloves and protective coveralls should be worn when dealing with any spill. Where ventilation is inadequate wear suitable breathing apparatus.
- Environmental Precautions:** Prevent entry into drains, sewers and water courses. The appropriate authorities should be notified if it has contaminated soil/vegetation. Spillages occurring on water should be removed from the surface using suitable absorbents. If necessary dispose of absorbed residues as described in section 13. All sources of ignition must be eliminated immediately.
- Decontamination Procedures:** Soak up with inert absorbent or contain and remove by pumping or best available means. Ensure explosion-proof equipment is used. In case of spillage on water contain by a boom and collect by skimming or absorption.



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7 Handling and Storage

The design and operation of bulk storage and fuel systems must comply with national legislation and recognised codes of practice. In smaller quantities containers such as drums should be stored in cool, well ventilated surroundings, away from all sources of ignition. Electrical equipment and fittings must comply with local fire prevention regulations for this class of flammable product.

Store at room Temperature away from moisture, heat or any ignition sources.

DO NOT SMOKE

AVOID INHALATION OF VAPOURS

AVOID CONTACT WITH THE SKIN OR MUCOUS MEMBRANES

DO NOT USE MOBILE PHONES DURING HANDLING

Keep the product away from food and beverages.

Prevent the formation of vapours, mist and aerosols.

Wear safety shoes and fully covering protective clothing GENERATING NO STATIC ELECTRICITY.

Never weld, drill, grind or saw any empty containers

Avoid repeated contact with the skin as this may cause skin conditions, which may also be aggravated by

Contact with soiled clothing.

Avoid contact with oxidisers. Remove any contaminated clothing immediately and launder before re-use.

Always use the correct grounding procedure. Store and handle in closed or properly vented containers.

Ensure compliance with statutory requirements for storage and handling. Regularly check for and

prevent potential leaks from containers. Installations should be designed to avoid pollution of soil and water.

Use only containers, joints pipes etc. made of material which is suitable for use with aromatic hydrocarbons.

8 Exposure Control/Personal Protection

If frequent or continuous contact is likely PROTECTIVE CLOTHING should be worn. A chemical resistant overall or apron, impervious gloves and eye protection.

Any electrically operated ventilation equipment must be BASEEFA, UL or approved for use in potentially Explosive atmospheres

Workplace Exposure limits:	8 hour TWA	Source
Benzene	1ppm	EH/40 2005 (amendment 2007)
n-Hexane	20ppm	EH/40 2005 (" " ")

Hand and skin protection - Hand and skin protection recommended at all times. Where exposure is likely protective clothing must be worn, including nitrile/PVC or neoprene gloves approved to BS EN 374 with a breakthrough time of >360 minutes.

Eye protection - Eye protection approved to BS EN 166 is recommended at all times.

9 Physical and Chemical Properties

Typical properties:

Appearance	Clear pale yellow liquid
Odour	Pungent petroleum odour
pH	Not applicable
Boiling Range °C	25-215
Flash Point (TAGC) °C	< -40
Flammability Limits % vol	1.4 – 8.7
Auto ignition temperature °C	>300
Density at 15°C	720-770 Kg/m ³
Solubility - water	Very low (0.01 g/l)
Viscosity cSt @ 20°C	0.5 – 0.75
Vapour density (relative to air)	3-4 (air=1)



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10 Stability and Reactivity

This product is stable under normal operating conditions.

Conditions to avoid: Sources of ignition, elevated temperatures, water.

Materials to avoid: Strong oxidising agents such as chlorates, nitrates and peroxides.

No hazardous decomposition products will be evolved at ambient temperatures. However, incomplete Combustion and thermolysis produces potentially toxic gases such as, carbon monoxide, carbon dioxide, Various hydrocarbons, aldehydes and soot.

11 Toxicological Information

Health effects:

Eyes: Slightly irritating but does not damage eye tissue

Skin: Prolonged or repeated exposure may lead to defatting of the skin, erythema, dermatitis or oil acne. Irritation, but a low order of toxicity.

Inhalation: Contains Benzene and complex hydrocarbons. Repeated or prolonged exposure to high levels of Benzene can be toxic and in extreme cases can lead to leukaemia. Any risks will be negligible under normal conditions provided all recommended hygiene precautions are followed. This product can be harmful due to aspiration of liquid into lungs following ingestion which may cause chemical pneumonitis and can be fatal.

Ingestion: Low order of acute/systemic toxicity.

Chronic: The long term toxicity evaluation for this product is based on testing results from similar atmospheric petroleum distillates.

Acute: Based on animal testing data from similar products, the acute toxicity is expected to be:

ORAL	(rat)	LD50	>5000mg/Kg (slightly toxic)
INHALATION	(rat)	LD50	>2500mg/Kg (moderately toxic)
DERMAL	(rabbit)	LD50	>2000 mg/Kg (moderately toxic)

12 Ecological Information

This product is classified as dangerous for the environment. On release to water gasoline (petrol) floats and Hydrocarbons are lost through volatilization. Toxic to fish and invertebrates.

Ecotoxicity: Some components of gasoline are water soluble, and harmful to aquatic organisms. Acute aquatic toxicities of gasoline are in the range 1-10 mg/l

Mobility: Mobile in soil and may contaminate groundwater.
The product evaporates in the air and dissipates more or less depending Upon local conditions. However, it may stagnate in pools in low lying Areas, in an undisturbed or confined atmosphere.

Degradability: Rapid removal of gasoline from the environment result from a combination Of evaporation, physical partitioning with flowing water and degradation. Volatile components are phyto-degraded in air by reaction with hydroxyl radicals.

Bioaccumulation Potential: From the known properties of the hydrocarbon components, gasolines are expected to be inherently biodegradable.



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13 Disposal Considerations

Place contaminated materials/packaging in suitable containers and dispose of according to the appropriate Regulations for Hazardous/Special waste. Always use a licensed disposal company. Take care as "empty" May contain flammable or explosive vapours.

14 Transport Information

Symbol: Flammable Liquid 3 Y E
Shipping name ; Gasoline unleaded
UN: Flammable liquid packaging group II
UN Number (Substance Identification Number): 1203
IMO Hazard Class: 3.1
ICAO Hazard Class: 3 IATA Hazard Class 3
ADR/RID Hazard Class: 3.1

15 Regulatory Information

Labelling:
Symbol(s): Skull & crossbones on orange background,
Dead Fish and Tree (n)
Flames on orange background

Classification Toxic, Extremely flammable, Dangerous for the environment
Extremely flammable
May cause cancer
Harmful may cause lung damage if swallowed.
Irritating to skin
Vapours may cause drowsiness and dizziness
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
If Swallowed do not induce vomiting, seek medical advice.
Do not breath vapour
Keep away from sources of ignition – No smoking
Wear suitable clothing and gloves
Avoid contact with skin
Avoid release to the environment. Refer to special instructions/Safety data Sheet

16 Other information

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for any applications other than that as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to inform your employees and others who may be affected by any of the hazards described in this sheet and of any precautions which should be taken.

Approved Code of Practice: Waste Management Duty of Care.

Risk Phrases Full Text:	R12	Extremely flammable
	R45	May cause cancer
	R65	Harmful may cause lung damage if swallowed.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment



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R38 Irritating to skin
R46 May cause heritable genetic damage
R63 Possible risk of harm to the unborn child
R67 Vapours may cause drowsiness and dizziness

Guidance: Prevention of Dermatitis at work (INDG-233)
Assessing and Managing risks at work from skin exposed to
Chemical agents (HSG 205).
Occupational Exposure Limits (EH40)
Effects of Mineral Oil on the Skin—Cautionary Notice.

EU Directives The above are available from HMSO and HSE sources.
Hazardous preparation Directive 1999/45/EC modified
(Directive 2001/60/EC) D. 67/548/EC Modified by
D. 2004/73/EC (29th ATP)

All reasonable care has been taken to ensure that the information in this publication is accurate at the time of printing. However, although certain hazards may be described we cannot predict all hazards that may exist whilst using the product in a workplace.
This MSDS should be used as a component of a risk assessment which is the responsibility of the user of the product to prepare and record before use.

MSDS - G & B 004