

MATERIAL SAFETY DATA SHEET

UNLEADED PETROL

Reference 6
REVISION 2
Page 1 – 5

1. IDENTIFICATION OF SUBSTANCE OR PREPARATION

PRODUCT ULTRA LOW SULPHUR PETROL/LOW SULPHUR LEAD REPLACEMENT PETROL/LOW SULPHUR SUPER UNLEADED

APPLICATION Motor Vehicle Fuel

COMPANY CPL Petroleum Limited
Central House
Otley Road
Harrogate
HG3 1RF

Telephone 01423 568 068 FAX: 01423 531 182

EMERGENCY TELEPHONE DAY 01423 568 068
NIGHT 01642 679 461

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION A complex combination of hydrocarbons consisting primarily of paraffins, naphthenes, aromatic and olefinic hydrocarbons having carbon numbers predominantly between C4 and C12.

HAZARDOUS COMPONENTS

Name	%	CAS	EINEC	SYMBOL	RISK PHRASES
BENZENE	1.0 max	71-43-2	200-753-7	T	R45,R11,R48,R23,R24,R25
GASOLINE	BULK V/V	86290-81-5	289-220-8	F+,T,Xi,Xn	R12,R38,R45,R65,R67,R51,R53

3. HAZARDS IDENTIFICATION

Extremely flammable. Explosive mixtures may form at ambient temperatures. May cause irritation in contact with eyes and skin. Harmful if swallowed. Aspiration into the lungs caused by vomiting is harmful and can be fatal. Contains benzene: prolonged or repeated exposure to benzene may cause anaemia and other blood diseases including leukemia. Classified as a category 2 carcinogen. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

EYES Immediately wash with fresh water for at least 15 minutes. Obtain medical advice if pain or redness develops.

SKIN Remove contaminated clothing as soon as possible. Wash exposed skin thoroughly with soap and water. If irritation persists, seek medical attention.

INGESTION If this material is swallowed, DO NOT INDUCE VOMITING. If unconscious, place in recovery position and protect airway. Seek immediate medical attention.

INHALATION If over exposure occurs, remove to fresh air. Administer artificial respiration if breathing stops. Seek immediate medical attention.

UNLEADED PETROL

Reference 6
REVISION 2
Page 2 – 5

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Use carbon dioxide, dry powder or foam. DO NOT USE WATER JETS. For small fires sand or earth may also be used.
FIRE AND EXPLOSION HAZARDS	Forms extremely flammable vapour – air mixture.
PROTECTIVE MEASURES	Do not enter confined spaces without proper protective equipment including respirator. Use waterfog or spray to cool containers exposed to fire.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

PERSONAL PRECAUTIONS	In the event of a major spillage, only trained personnel wearing self contained breathing apparatus. Any spillage or leak should be treated as a major fire/explosion hazard.
ENVIRONMENTAL PRECAUTIONS	Alert fire brigade. Eliminate all sources of ignition. If vehicles present, switch off engines. Contain spillage.
RECOVERY	Recovery of large spillages should be effected by specialist personnel. Soak up residual fluids using sand, sawdust, earth.

7. STORAGE AND HANDLING (IN NORMAL USE)

STORAGE	Gasoline storage is subject to legislative controls. Storage tanks must be suitably designed and installed, in accordance with legislation. Storage must be remote from all sources of heat, ignition and open flame. The vapours in tank head spaces should be considered highly flammable at all times. Use spark proof tools.
VENTILATION	Ensure adequate ventilation.
HANDLING	DO NOT SMOKE, EAT OR DRINK WHILST HANDLING. Avoid breathing vapours and/or mist. Launder contaminated clothing before re-use. Do not siphon product by mouth

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (NORMAL USE)

OCCUPATIONAL EXPOSURE LIMITS

Name	8Hr TWA	15 min	Type	Ref
BENZENE			MEL	EH40/02
GASOLINE – the following limits are recommended	1 ppm 900 mg/m ³ 300 ppm	1500 mg/m ³ 500 ppm	TLV	ACGIH

ENGINEERING MEASURES Ensure adequate ventilation. Avoid flames and excessive temperatures.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY	Unlikely to be required in normal use. If exposed to vapours or mist use organic vapour mask.
HAND	Impervious gloves of nitrile rubber or PVC.
EYE	Use goggles if risk of eye contact.
OTHER	Coveralls.

UNLEADED PETROL

Reference 6
REVISION 2
Page 3 – 5

9. PHYSICAL/CHEMICAL PROPERTIES

APPEARANCE	Clear liquid. Pale yellow.
ODOUR	Characteristic odour.
BOILING POINT (or RANGE)	25 - 220°C
FLASH POINT	< -40°C
AUTO-IGNITION TEMP	380°C
EXPLOSIVE LIMITS	
UPPER LIMIT	8%
LOWER LIMIT	1%
VAPOUR PRESSURE	0.5 – 1 bars
VAPOUR DENSITY	3 – 4 (air = 1)
DENSITY @ 15°C	720 – 775 kg/m ³
SOLUBILITY	Negligible, < 0.1%

10. STABILITY AND REACTIVITY

STABILITY	Stable at ambient temperatures. Burning can be easily started.
CONDITIONS TO AVOID	Avoid exposure to heat and flame.
MATERIALS TO AVOID	Avoid strong oxidising materials.
HAZARDOUS DECOMPOSITION PRODUCTS	Incomplete combustion will generate carbon monoxide, carbon dioxide and other hazardous gases. Thermal decomposition products will vary with conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS	
EYES	Exposure to mist or direct splashing may cause irritation.
SKIN	Will remove natural fats from the skin. Prolonged or repeated exposure may cause irritation or possibly dermatitis.
INGESTION	Unlikely to occur in normal use. Spontaneous vomiting is common with consequent risk of aspiration resulting in a potentially fatal chemical pneumonitis.
INHALATION	Exposure to high levels of vapour result in central nervous system and respiratory depression with subsequent loss of consciousness. Where ventilation is poor or temperatures high vapour production may be a hazard. Inhalation of oil mists may cause irritation to the upper respiratory tract.
CHRONIC EFFECTS	This product contains Benzene (< 1%) which is classified as a carcinogen. Exposure to benzene may result in blood disorders such as anaemia and leukemia.

UNLEADED PETROL

Reference 6
REVISION 2
Page 4 – 5

12. ECOLOGICAL INFORMATION

MOBILITY	Spillages may penetrate the soil causing ground water contamination.
PERSISTENCE & DEGRADABILITY	Ground spillage in large quantities may be of concern as the high mobility of the product could cause it to enter soil sub-strata, long term ground and ground water contamination may result. This product is inherently biodegradable.
BIO-ACCUMULATION	Not determined.
AQUATIC TOXICITY	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Any films formed on water may effect oxygen transfer and damage organisms.
OTHER	The vapours emitted are V.O.C's and may contribute to the formation of low level ozone.

13. DISPOSAL

Dispose of in accordance with local authority/national regulations relating to hazardous waste. Materials contaminated with product should be treated as highly flammable.

14. TRANSPORT INFORMATION (REGULATIONS)

PACKAGING (Size & Description)	
TRANSPORT CLASSIFICATION	FLAMMABLE LIQUID
UN NUMBER	1203
PROPER SHIPPING NAME	Petrol or Motor Spirit or Gasoline.
ICAO/IATA/IMDG CLASS	3
SUBSIDIARY RISK	--
PACKING GROUP	II
ADR CLASS	3
TRANSPORT HAZARD SYMBOL	Black flame on red.
HAZARD IDENT. NUMBER	33
EMERGENCY ACTION CODE	3YE
OTHER	

UNLEADED PETROL

Reference 6
REVISION 2
Page 5 – 5

15. REGULATORY INFORMATION (Supply & Labelling)

SUPPLY CLASSIFICATION	Extremely Flammable. Cat 2 Carcinogen.Harmful. Irritant. Dangerous for the environment.
LABELLING SYMBOLS	Black flame on orange square Black skull and crossbones on orange square. Dead tree & fish.
RISK PHRASES	R12 Extremely flammable. R38 Irritating to skin. R45 May cause cancer. R51/R53 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.
SAFETY PHRASES	S23 Do not breathe vapour. S24 Avoid contact with skin. S16 Keep away from sources of ignition. S33 Take precautionary measures against static discharge. S2 Keep out of the reach of children. S29 Do not empty into drains. S43 In case of fire, use foam/dry powder/ CO2. Never use water jets. S61 Avoid release to the environment. Refer to special instructions/ safety data sheets. S62 If swallowed, do not induce vomiting seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Fuel for spark ignition engines primarily, for automotive and commercial use but used in industrial and marine applications.

DO NOT siphon by mouth. DO NOT use as fuel for aircraft.

REVISION 2

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The information given in this data sheet is presented as guidance only for the purpose of determining health, safety and environmental measures. No warranty or representation express or implied is made as to the accuracy of completeness of the data and information contained in this data sheet. It is the users responsibility to evaluate this product and its intended use and to ensure compliance with applicable laws and regulations.
