

Safety Data Sheet

1.0 IDENTIFICATION OF THE SUBSTANCE / MIXTURE

1.1 Product Identification

Substance	Gasoline
Commercial Product Name	Unleaded Petrol (95 RON), Super Unleaded Petrol (97 and 99 RON)
Synonyms	PUL, PU10, SUL, SU97, SU99
CAS	86290-81-5
ECHA Registration No.	01-2119484664-27-0178

1.2 Relevant identified uses of the substance or mixture and uses advised against

Specific Use(s)	Fuel for use in petrol engine vehicles designed to run on unleaded petrol
Exposure Scenario(s)	
Uses Advised Against	
Chemical Safety Report	

1.3 Details of the supplier of the SDS

Company	Greenergy Fuels Limited High Holborn London WC1V 7BD UNITED KINGDOM
Telephone No.	02074047700
Email	msds-info@greenergy.com

1.4 Emergency telephone number

Emergency telephone number	+44 (0)1235 836 100
Opening Hours	24 / 7

Version No	5.0
Last Updated	22 Nov 2016
Supersedes	4.0

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

CLP-Classification: The product is classified as hazardous in accordance with Directive 1272/2008/EEC.

Flam. Liq. 1	H224
Skin Irrit. 2	H315
Carc. 1B	H350
Mutagenic 1B	H340
Asp.Tox. 1	H304
STOT SE 3	H336
Aquatic Chronic 2	H411
Reproductive 2	H361fd

For the full text of classification codes and/or H-phrases in this section, see 2.2 below.

2.2 Label elements

Labelling according to Regulation (EU) 1272/2008

CLP pictograms:



GHS02



GHS08



GHS07



GHS09

Signal word:	Danger
CLP Hazard statements:	H224 - Extremely flammable liquid and vapour. H315 - Causes skin irritation. H350 - May cause cancer H340 - May cause genetic defects H304 - May be fatal if swallowed and enters airways. H336 - May cause drowsiness or dizziness H411 - Toxic to aquatic life with long lasting effects. H361 - Suspected of damaging fertility or the unborn child

CLP Precautionary statements: P202 - Do not handle until all safety precautions have been read & understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P273 - Avoid release to the environment
P281 - Use personal protective equipment as required
P308 + P313 - If exposed or concerned; get medical advice / attention.
P362 – Take off contaminated clothing and wash before reuse

Labelling according to Directives (67/548/EEC - 1999/45/EC)

Not relevant

Other Hazards

Other hazards which do not result in classification Results of PBT and vPvB assessment : This information is not available.

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Substance name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP / GHS]
Gasoline	CAS no: 86290-81-5 EC no: 289-220-8 EC Index: 649-378-00-4	100	H224 - Flam. Liq. 1 H315 - Skin Irrit. 2 H350 – Carc. 1B H340 - Muta. 1B H304 - Asp.Tox. 1 H336 - STOT SE 3 H411 - Aquatic Chronic 2 H361 - Repr. 2

For the full text of classification codes and/or H-phrases in this section, see section 2.2

3.2 Mixtures

Not applicable

4.0 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:	Keep at rest. Move to fresh air. Oxygen or artificial respiration if needed Consult a physician immediately.
Skin contact:	After contact with skin, wash immediately with plenty of soap and water. Take off contaminated clothing and shoes immediately Wash contaminated clothing before reuse If skin irritation persists, call a physician
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist
Ingestion:	Do NOT induce vomiting Rinse mouth Drink plenty of water Never give anything by mouth to an unconscious person Obtain medical attention.
Additional advice:	First aider needs to protect him/her self See also section 8 Show this safety data sheet to the physician in attendance

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	May cause drowsiness and dizziness
Skin contact:	Irritating to skin
Eye contact:	Contact with eyes may cause irritation
Ingestion:	Harmful: may cause lung damage if swallowed

4.3 Indication of immediate medical attention and special treatment needed

No data available

5.0 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water spray or alcohol resistant foam.

Extinguishing media which shall not be used for safety reasons: High volume water jet

5.2 Special hazards arising from the substance or mixture

Fire Hazard: Extremely flammable

Specific hazards: Evacuate personnel to safe areas. Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors. Flash back is possible over considerable distance. Possible decomposition products are: CO_x. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3 Advice for firefighters

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

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear personal protective equipment. See also section 8. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Ensure all equipment is electrically grounded before beginning transfer operations. Do not breathe vapours or spray mist. Do not smoke.

Advice for emergency Responders: Only qualified personnel equipped with suitable protective equipment should intervene

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Remove all sources of ignition. Do not use tools which may produce sparks. Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dam up. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Dispose of in accordance with local regulations.

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling: Wear personal protective equipment. See also section 8. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Use only in well-ventilated areas. Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Always replace cap after use. Take care to avoid waste and spillage when weighing, loading and mixing the product. Do not empty into drains

7.2 Conditions for safe storage, including any incompatibilities

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

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product. Do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Use only in area provided with appropriate exhaust ventilation.

Packaging material: Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate

7.3 Specific end use(s)

Specific use(s): see Exposure scenarios

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component: Gasoline (86290-81-5)

TLV-TWA (mg/m³): 1100 (CH), 250 (UT4, Kraftstoff, DE); mist: 5 (BE, GB, FR, NL, ES, FI, DK, NO); mist: 1 (SE)

TLV-STEL (mg/m³): (mist) 10 (BE, GB); (mist) 3 (SE)

DNEL: see Exposure scenarios

PNEC: see Exposure scenarios

Recommended monitoring Procedures: Concentration measurement in air, personal monitoring

8.2 Exposure controls

Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment. Recommended Filter type: A (EN 141), Respirator with a half face mask (EN 140), Respirator with full face mask (EN 140)
Hand protection:	Wear chemically resistant gloves tested for breakthrough time for gasoline in accordance with EN374. 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 requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection:	Safety glasses (EN 166)

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	liquid
Colour:	pale yellow
Odour:	characteristic petroleum hydrocarbon odour
pH:	no data available
Boiling point/boiling range:	25 - 200°C
Melting point/range:	< -60°C
Flash point:	< -40°C
Explosive properties:	no data available
Oxidizing properties:	no data available
Evaporation rate:	no data available
Vapour pressure:	~ 350 - 900 hPa @ 37.8°C
Vapour density:	no data available
Solubility in water:	slightly soluble (30 - 100mg/l, 20°C)
Viscosity:	no data available
Density:	720 – 775 kg/m ³ @ 15°C
Partition coefficient:	2.1 - 6 (n-octanol/water)

9.2 Other information

No data available

10.0 STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity: Flammable liquid

See also section 10.5

10.2 Chemical stability

Stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Conditions to avoid: Heat, flames and sparks. See also section 7

10.5 Incompatible materials

Incompatible materials: Incompatible with strong acids and oxidizing agents. Bases

10.6 Hazardous decomposition products

Hazardous decomposition products: Burning produces noxious and toxic fumes. Possible decomposition products are: COx

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

General Information

Acute toxicity

Component: Gasoline (86290-81-5)

LD50/oral/rat: > 5000 mg/kg

LD50/dermal/rat: > 2000 mg/kg

LD50/inhalation/4hr/rat: > 5.2 mg/l/4hr

Inhalation: May cause drowsiness or dizziness.

Skin contact: Repeated exposure may cause irritation, skin dryness or cracking.

Eye contact: Contact with eyes may cause irritation.

Ingestion: Harmful: may cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Acute toxicity: May be fatal if swallowed and enters airways

Chronic toxicity: May cause cancer
May cause genetic defects

Further information

No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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

Component: Gasoline (86290-81-5)

LC50/96h/fish: 82 mg/l

EC50/48hr/daphnia: 7.6 mg/l

12.2 Persistence and degradability

Persistence and degradability: Inherently biodegradable

12.3 Bioaccumulative potential

Bioaccumulation: Does not bioaccumulate
Partition coefficient: 2.1 - 6 (n-octanol/water)

12.4 Mobility in soil

Mobility: no data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13.0 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products: Dispose of in accordance with local and national regulations. Where possible, recycling is preferred to disposal or incineration

Contaminated packaging: Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate.

Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC): The following Waste Codes are only suggestions: 130702 - petrol 150110 - 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

14.1 UN Number

UN number : 1203

14.2 UN proper shipping name

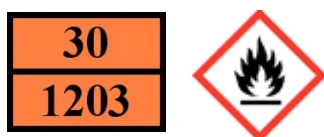
Proper shipping name : MOTOR SPIRIT / GASOLINE / PETROL

14.3 Transport hazard class(es)

14.3.1 Overland transport

Class: 3 - Flammable liquids
Danger code: 30
ADR classification code: F1
ADR danger labels: 3 - Flammable liquid

Orange plates:



ADR tunnel restriction code: D/E ADR
limited quantities: LQ07
ADR excepted quantities: E1

Inland waterway transport (ADN/ADNR)

ADNR class: 3

14.3.2 Transport by sea

Class: 3 - Flammable liquid

14.3.3 Air transport

Class: 3 - Flammable liquid

14.4 Packing group

Packing group: III

14.5 Environmental hazards

Marine pollutant: P



Other information (transport) : No supplementary information available.

14.6 Special precautions for users

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

15.0 REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1 EU-Regulations**

No data available

15.1. National regulations

WGK: 3

15.2 Chemical Safety Assessment

Chemical Safety assessment: A Chemical Safety Assessment has been carried out for this substance.

16.0 OTHER INFORMATION

Updated sections: All sections reviewed and re-formatted

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.