

Greenergy SAFETY DATA SHEET

For Gasoline

To msdsinfo
 From Greenergy Fuels Limited
 Unique Reference No. internal2
 Date 17 Jan 2012 14:47

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

1.1 Product Identification

Substance Gasoline
 Commercial Product Name Petrol (Premium Unleaded and Super Unleaded)
 Synonyms
 CAS 86290-81-5
 ECHA Registration No. 01-2119471335-39-0132

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

Specific Use(s) Fuel - Internal Combustion Engine, 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
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 Fax

1.4 Emergency telephone number

Emergency telephone number 02074047700
 Opening Hours

Version No	4.0
Last Updated	4 Nov 2011
Supersedes	3.0

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	CAS 86290-81-5	Issuing date : 04/11/2011
		Supersedes : 24/12/2010

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008/EC

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

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

Full text of H-phrases: see section 16.

2.1.2. Classification according to EU Directives 67/548/EC or 1999/45/EC

Classification : The product is classified as dangerous in accordance with Directive 67/548/EEC.

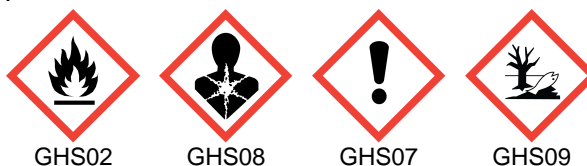
Carc.Cat.2; R45
Muta.Cat.2; R46
Repr.Cat.3; R62
Repr.Cat.3; R63
F+; R12
Xn; R65
Xi; R38
N; R51/53
R67

Full text of R-phrases: see section 16.

2.2 Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

CLP pictograms :



Signal word :

Hazard statements (CLP) :

- : Danger
- : H224 - Extremely flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H340 - May cause genetic defects.
H350 - May cause cancer.
H361 - Suspected of damaging fertility or the unborn child.
H411 - Toxic to aquatic life with long lasting effects.
- : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P202 - Do not handle until all safety precautions have been read and understood.
P308+P313 - IF exposed or concerned: Get medical advice/ attention.
P362 - Take off contaminated clothing and wash before reuse.
P281 - Use personal protective equipment as required.
P273 - Avoid release to the environment.

Precautionary statements (CLP) :

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

Not relevant

2.3. Other hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
Gasoline	(CAS No.) 86290-81-5 (EC No) 289-220-8 (EC Index) 649-378-00-4	100	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Repr. Cat. 3; R62 Repr. Cat. 3; R63 F+; R12 Xn; R65 Xi; R38 N; R51/53 R67
Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Gasoline	(CAS No.) 86290-81-5 (EC No) 289-220-8 (EC Index) 649-378-00-4	100	Flam. Liq. 1, H224 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H336 Aquatic Chronic 2, H411 Repr. 2, H361fd

Full text of R-, H- and EUH-phrases: see section 16.

3.2. Mixtures

Not applicable

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation	: Keep at rest. Move to fresh air. Oxygen or artificial respiration if needed. Call a physician immediately.
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.
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. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
Additional advice	: First aider needs to protect himself. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance.

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Treat symptomatically.
When symptoms persist or in all cases of doubt seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation : Vapours 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. FIREFIGHTING 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 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

Advice for firefighters : Special protective equipment for firefighters . Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel : Ensure adequate ventilation. Evacuate personnel to safe areas. Wear personal protective equipment. See also section 8. Do not breathe vapours or spray mist. 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. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixture with air. Flash back possible over considerable distance.
Advice for emergency responders : Only qualified personnel equipped with suitable protective equipment may 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 : 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.

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6.4. Reference to other sections

See also section 13. See also section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

- | | | |
|------------------|---|---|
| Handling | : | Ensure adequate ventilation. Wear personal protective equipment. See also section 8 . Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. 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. Take any precaution to avoid mixing with Incompatible materials. |
| Hygiene measures | : | Use only in area provided with appropriate exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Keep working clothes separately. Wash contaminated clothing before re-use. |

7.2. Conditions for safe storage, including any incompatibilities

- | | | |
|--------------------|---|--|
| Storage | : | Storage of flammable liquids . Do not store near or with any of the incompatible materials listed in section 10. Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry, cool and well-ventilated place. Ensure all equipment is electrically grounded before beginning transfer operations. |
| 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)

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

- | | | |
|-----------------------------------|---|---|
| Exposure limit(s) | : | |
| Component | : | Gasoline (86290-81-5) |
| TLV-TWA (ppm) | : | 300 (CH, VLA-ED Spain, 2008) |
| TLV-TWA (mg/m ³) | : | 1100 (CH), 250 (UT4, Kraftstoff, DE); mist: 5 (BE, GB, FR, NL, ES, FI, DK, NO); mist: 1 (SE); |
| TLV-STEL (mg/m ³) | : | mist: 10 (BE, GB); mist: 3 (SE) |
| DNEL | : | Exposure scenario |
| PNEC | : | Exposure scenario |
| Recommended monitoring procedures | : | Concentration measurement in air,Personal monitoring . |

8.2. Exposure controls

- | | | |
|-------------------------------|---|--|
| Personal protective equipment | : | Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
|-------------------------------|---|--|

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Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. Respirator with a full face mask (EN 136). Respirator with a half face mask (EN 140). Recommended Filter type: A (EN 141).
Hand protection	:	Rubber gloves - Nitrile rubber (EN 374). 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 (EN166)
Engineering measures	:	Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Eye wash bottle with pure water . Organisational measures to prevent /limit releases, dispersion and exposure . See also section 7 .
Environmental exposure controls	:	Do not flush into surface water or sanitary sewer system.,Comply with applicable Community environmental protection legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	yellow
Odour	:	petroleum hydrocarbon odour
pH	:	no data available
Melting point/range	:	< -60 °C
Boiling point/boiling range	:	25 - 200 °C
Flash point	:	< -40 °C
Evaporation rate	:	no data available
Explosion limits	:	no data available
Vapour pressure	:	~ 350 - 900 hPa @ 37,8°C
Vapour density	:	no data available
Relative density	:	~ 0,68 - 0,79 @ 15°C
Water solubility	:	slight (30 - 100 mg/l @ 20°C)
Partition coefficient: n-octanol/water	:	2,1 - 6
Autoignition temperature	:	~ 280 - 470 °C
Viscosity	:	no data available
Explosive properties	:	Vapours may form explosive mixture with air.
Oxidizing properties	:	not applicable

9.2. Other information

No data available

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity	:	Flammable liquid,See also section 10.5
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10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : no data available

10.4. Conditions to avoid

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

10.5. Incompatible materials

Incompatible materials : Oxidizing agents . See also section 7 : Handling and storage .

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Gasoline (86290-81-5)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LC50/inhalation/4h/rat	5,2 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
pH: no data available

Serious eye damage/irritation : Not classified (Not classified due to data which are conclusive although insufficient for classification.)
pH: no data available

Respiratory or skin sensitisation : Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Reproductive toxicity : Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Aspiration hazard : May be fatal if swallowed and enters airways.

Further information

Symptoms related to the physical, chemical and toxicological characteristics : See section 4.2.

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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
 EC50/48h/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: n-octanol/water : 2,1 - 6

12.4. Mobility in soil

Mobility : no data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB : no data available

12.6. Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products : Handle with care. See also section 7 : Handling and storage . Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. Collect and dispose of waste product at an authorised disposal facility.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Additional ecological information : Do not flush into surface water or sanitary sewer system.

Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC) : Classified as hazardous waste according to European Union regulations. 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-No. : 1203

14.2. UN proper shipping name

Proper shipping name : MOTOR SPIRIT / GASOLINE / PETROL
 Proper shipping name IATA/IMDG : MOTOR SPIRIT / GASOLINE / PETROL

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14.3. Transport hazard class(es)

14.3.1. Overland transport

Class : 3 - Flammable liquid
Hazard identification number (Kemler No.) : 33
Classification code : F1
ADR/RID-Labels : 3 - Flammable liquid



14.3.2. Inland waterway transport (ADN/ADNR)

Class (ADNR) : 3

14.3.3. Transport by sea

Class : 3 - Flammable liquid

14.3.4. Air transport

Class : 3 - Flammable liquid

14.4. Packing group

Packing group : II

14.5. Environmental hazards

Environmental hazards : P



Other information : 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. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Authorisations/Restrictions on use : not applicable

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.

: none

15.1.2. National regulations

WGK : 3

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15.2. Chemical Safety Assessment

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

16. OTHER INFORMATION

Full text of R-, H- and EUH-phrases:

Aquatic Chronic 2	: Hazardous to the aquatic environment - chronic hazard category 2
Asp. Tox. 1	: Aspiration hazard Category 1
Carc. 1B	: Carcinogenicity Category 1B
Flam. Liq. 1	: Flammable liquids Category 1
Muta. 1B	: Germ cell mutagenicity, hazard categories 1B
Repr. 2	: Reproductive toxicity, Hazard Category 2
Skin Irrit. 2	: skin corrosion/irritation Category 2
STOT SE 3	: Specific target organ toxicity (single exposure) Category 3
H224	: Extremely flammable liquid and vapour.
H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H336	: May cause drowsiness or dizziness.
H340	: May cause genetic defects.
H350	: May cause cancer.
H361fd	: Suspected of damaging fertility. Suspected of damaging the unborn child.
H411	: Toxic to aquatic life with long lasting effects.
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.
R62	: Possible risk of impaired fertility.
R63	: Possible risk of harm to the unborn child.
R65	: Harmful: may cause lung damage if swallowed.
R67	: Vapours may cause drowsiness and dizziness.

Sources of key data used to compile the datasheet : European Chemicals Bureau
20100824 CONCAWE C&L update version 3.0

Safety datasheet sections which have been updated: : 2,4,5,6,7,8,9,10,11,12,13,15,16

Abbreviations and acronyms : ADNR = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

DNEL = Derived No Effect Level

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EC50 = Median Effective Concentration
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 LC50 = Median lethal concentration
 LD50 = Median lethal dose
 PNEC = Predicted No Effect Concentration
 STEL = Short term exposure limit
 TLV = Threshold limits
 TWA = time weighted average
 persistent, bioaccumulating and toxic (PBT).
 very persistent and very bioaccumulating (vPvB).
 WGK = Wassergefährdungsklasse (Water Hazard Class under German
 Federal Water Management Act)

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.

SUMMARY OF CHANGES

For 86290-81-5

The following changes have been made to this eSDS:

Version 3.0 updated to Version 4.0 - 1 Jan 2011

- Sections 2-16 updated

Version 2.0 updated to Version 3.0 - 30 Nov 2010

- Sections 2-16 updated

Version 1.0 updated to Version 2.0 - 24 Jun 2009

- Sections 2-16 updated

Version - updated to Version 1.0 - 24 Jun 2009

- Sections 2-16 updated