

# Safety Data Sheet

## 1.0 IDENTIFICATION OF THE SUBSTANCE / MIXTURE

### 1.1 Product Identification

Substance	Gasoline, Unleaded
Commercial Product Name	Unleaded Petrol
Synonyms	Regular Unleaded, Super Unleaded, Premium Unleaded, PUL, SUL, RUL
Specific Use(s)	Fuel for use in petrol engine vehicles designed to run on unleaded petrol
CAS	86290-81-5

### 1.2 Details of the supplier of the SDS

Company	Greenergy Fuels Canada 107 Germain Street, Suite 300 Saint John New Brunswick E2L 2E9 CANADA
Telephone No.	506 632 1650
Email	<a href="mailto:msds-info@greenergy.com">msds-info@greenergy.com</a>

### 1.3 Emergency telephone number

Emergency telephone number (CANUTEC)	<b>613-996-6666</b> From Cellular phone only * <b>666</b>
Availability	<b>24hrs</b>

Version no.	1.0
Last Updated	Dec 2020

## 2.0 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to GHS

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 GHS

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

#### Other Hazards

Not relevant

### 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	90	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
Ethanol	CAS no: 64-17-5	10	H225 – Flam. Liq. 2

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

### 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 irritation of respiratory tract. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Skin contact:	Irritating to skin
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

## 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, CO <sub>2</sub> , 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:	Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. The pressure in sealed containers can increase under the influence of heat. Cool containers / tanks with water spray. Burning produces noxious and toxic fumes. Possible decomposition products are: CO <sub>x</sub> , H <sub>2</sub> S, SO <sub>x</sub> 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.
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## 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. Do not breathe vapours or spray mist. Do not smoke.
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### 6.2 Environmental precautions

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

## 8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Component:	Gasoline (86290-81-5)
TLV-TWA (mg/m <sup>3</sup> ):	500 (CA AB OEL)
TLV-STEL (mg/m <sup>3</sup> ):	300 (CA AB OEL)
TLV-TWA (mg/m <sup>3</sup> ):	500 (CA BC OEL)
TLV-STEL (mg/m <sup>3</sup> ):	300 (CA BC OEL)
TLV-TWA (mg/m <sup>3</sup> ):	500 (ACGIH)
TLV-STEL (mg/m <sup>3</sup> ):	300 (ACGIH)
Component:	Benzene (71-43-2)
TLV-TWA (mg/m <sup>3</sup> ):	1.6 (CA AB OEL); (CA BC OEL); (CA ON OEL)
TLV-STEL (mg/m <sup>3</sup> ):	8 (CA AB OEL); (CA BC OEL); (CA ON OEL)
TLV-TWA (mg/m <sup>3</sup> ):	3 (CA QC OEL)
TLV-STEL (mg/m <sup>3</sup> ):	15.5 (CA QC OEL)
TLV-TWA (mg/m <sup>3</sup> ):	1.6 (ACGIH)
TLV-STEL (mg/m <sup>3</sup> ):	8 (ACGIH)

## 8.2 Biological occupational exposure limits

Component:	Toluene (108-88-3)
Conc. in blood (mg/l): (prior to last shift)	0.02 (ACGIH, BEI)
Conc. in urine (mg/l): (End of shift, as soon as possible after exposure ceases)	0.03 (ACGIH, BEI)

## 8.3 Exposure controls

Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment, selected in accordance with CAN/CSA – Z94.4
Hand protection:	Wear chemically resistant gloves tested for breakthrough time for gasoline. 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 (CAN/CSA – Z94.3)

## 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
Auto-ignition temp:	257°C
UEL:	7.6% (v/v)
LEL:	1.3% (v/v)
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 <sup>3</sup> @ 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: In accordance with local and national regulations. Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate

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



## 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 labels: 3 - Flammable liquid  
 ERG code: 128



#### 14.3.2 Transport by sea

Class: 3 - Flammable liquid  
 Danger labels: 3 - Flammable liquid  
 EmS: F-E, S-E

#### 14.3.3 Air transport

Class: 3 - Flammable liquid  
 Danger labels: 3 - Flammable liquid  
 Packing Instruction (cargo aircraft): 366

### 14.4 Packing group

Packing group: II

### 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

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

### 15.2 Chemical Safety Assessment

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

## 16.0 OTHER INFORMATION

Revision: 1.0  
Date: Dec 2020  
Updated sections: New version, all sections reviewed for Canada

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