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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Commercial Product Name : UNLEADED 95

Chemical name of the substance : Unleaded Gasoline

Specific use(s) : Fuel

Company : Topaz Energy  
Topaz House Beech Hill Clonskeagh  
-Dublin 4, Ireland  
Tel.:+353 1 202 8888  
Fax:+353 1 203 9888  
E-mail:safetydatasheets@topazenergy.ie

Emergency telephone number : +353 1 808 8232

## 2. HAZARDS IDENTIFICATION

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



T : Toxic



N : Dangerous for the environment



F+ : Extremely flammable

Most important hazards : 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.  
R63 - Possible risk of harm to the unborn child.  
R65 - Harmful: may cause lung damage if swallowed.  
R67 - Vapours may cause drowsiness and dizziness.

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



Signal word : Danger

CLP Hazard statements : H226 - Flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H411 - Toxic to aquatic life with long lasting effects.  
H340 - May cause genetic defects  
H350 - May cause cancer  
H361d - Suspected of damaging the unborn child.

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<b>Main symptoms</b>	
Inhalation	: May cause irritation of respiratory tract. Vapours may cause drowsiness and dizziness. Inhalation of high vapour concentrations can cause CNS-depression and narcosis. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Skin contact	: Irritating to skin.
Eye contact	: May cause eye irritation. Repeated or prolonged exposure: Inflammation, Redness, Ulceration
Ingestion	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia. Repeated and prolonged exposure to solvents may cause brain and nervous system damage.
<b>Environmental properties</b>	
	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	Values (%)	CAS no	EC No	EC Index	Symbol(s):	R-phrase(s)
Gasoline	<= 100	86290-81-5	289-220-8	649-378-00-4	T, N, F+	R12, R38, R45, R46, R51/53, R62, R63, R65, R67

Full text of R-phrases: See section 16.

Substance name	Values (%)	CAS no	EC No	EC Index	CLP pictograms	CLP Hazard statements
Gasoline	<= 100	86290-81-5	289-220-8	649-378-00-4	GHS02,GHS08,GHS09	H224,H304, H315,H336, H340,H350, H411,H361fd

Full text of the H-statements: See section 16.

### 4. FIRST AID MEASURES

First aid measures

Inhalation	: <i>May cause irritation of respiratory tract. - Vapours may cause drowsiness and dizziness. - Inhalation of high vapour concentrations can cause CNS-depression and narcosis. - Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.</i> Move to fresh air. Keep at rest. In case of shortness of breath, give oxygen. Obtain medical attention.
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- Skin contact : *Irritating to skin.*  
Take off contaminated clothing and shoes immediately.  
After contact with skin, wash immediately with plenty of soap and water.  
If skin irritation persists, call a physician.
- Eye contact : *May cause eye irritation.- Repeated or prolonged exposure: Inflammation, Redness, Ulceration*  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If pain persists, call a physician.
- Ingestion : *Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.- Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia.- Repeated and prolonged exposure to solvents may cause brain and nervous system damage.*  
Call a physician immediately.  
Do NOT induce vomiting.  
Rinse mouth.  
Drink plenty of water.
- Additional advice : Show this safety data sheet to the doctor in attendance.  
Treat symptomatically.  
Never give anything by mouth to an unconscious person.

## 5. FIRE-FIGHTING MEASURES

- Fire Hazard : Extremely flammable
- 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
- Specific hazards : The pressure in sealed containers can increase under the influence of heat.  
Fire or intense heat may cause violent rupture of packages.  
In the event of fire, cool tanks with water spray.  
Vapours may form explosive mixtures with air.  
Vapours are heavier than air and may spread along floors.  
Flash back possible over considerable distance.  
Burning produces noxious and toxic fumes.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon oxides  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Wear personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Evacuate personnel to safe areas.  
Keep people away from and upwind of spill/leak.  
Avoid contact with skin and eyes.  
Do not breathe vapours or spray mist.  
Wear personal protective equipment.  
See also section 8.
- Environmental precautions : Prevent product from entering drains.

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Methods for cleaning up : Ensure adequate ventilation, especially in confined areas.  
 Remove all sources of ignition.  
 Do not use sparking tools.  
 Do not smoke.  
 Dam up.  
 Prevent further leakage or spillage if safe to do so.  
 Hose down gases, fumes and/or dust with water.  
 Soak up with inert absorbent material.  
 Sweep up and shovel into suitable containers for disposal.  
 Dispose of in accordance with local regulations.  
 Collect and dispose of waste product at an authorised disposal facility.  
 After cleaning, flush away traces with water.  
 Local authorities should be advised if significant spillages cannot be contained.

## 7. HANDLING AND STORAGE

Storage : Keep containers tightly closed in a dry, cool and well-ventilated place.  
 Store in original container.  
 Keep in a banded area.  
 Keep away from open flames, hot surfaces and sources of ignition.  
 Keep away from food, drink and animal feedingstuffs.  
 Do not store near or with any of the incompatible materials listed in section 10.  
 Regularly check for damage to packaging

Handling : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
 Ensure all equipment is electrically grounded before beginning transfer operations.  
 Do not use pressure to empty drums.  
 Do not smoke.  
 Avoid contact with skin, eyes and clothing.  
 Do not breathe vapours or spray mist.  
 Wear personal protective equipment.  
 See also section 8.  
 Ensure adequate ventilation.  
 When using do not eat or drink.  
 Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.  
 Do not burn, or use a cutting torch on, the empty drum.

Packaging material : glass,metal containers,Plastic jerrican

Specific use(s) : Fuel

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with filter model A. (type A1/A2/A3; EN 141/136/140/137)

Hand protection : PVC disposable gloves  
 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 with side-shields conforming to EN166

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	Goggles
Skin and body protection	: chemical-resistant overalls Chemical resistant apron
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Eye wash bottle with pure water
Engineering measures	: Provide sufficient air exchange and/or exhaust in work rooms.
Environmental exposure controls	: Do not flush into surface water or sanitary sewer system.
Exposure limit(s)	
<b>Component</b>	: <b>Gasoline (86290-81-5)</b>
TLV-TWA (ppm)	: 300 (PT, ES)
TLV-TWA (mg/m <sup>3</sup> )	: mist: 5 (BE, GB, NL, FR, ES, FI, DK, NO); 1 (SE); 250 (UT4, Kraftstoff, DE); 400 (CZ)
TLV-STEL (ppm)	: 500 (PT)
TLV-STEL (mg/m <sup>3</sup> )	: mist: 10 (BE, GB); 3 (SE); 1000 (CZ)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: Colourless to pale coloured
Odour	: hydrocarbon-like
pH	: Not applicable
Boiling point/boiling range	: 25 - 215 °C
Melting point/range	: no data available
Flash point	: < -40°C
Autoignition temperature	: 445 °C
Explosive properties	: L.E.L 1,3 vol % / U.E.L 7,6 vol %
Oxidizing properties	: no data available
Evaporation rate	: no data available
Vapour pressure	: 450 - 1000 (20°C) hPa
Vapour density	: no data available
Water solubility	: slight
Viscosity	: No data available
Relative density	: 0,725 - 0,775 @ 15°C
Partition coefficient: n-octanol/water	: > 3

## 10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Hazardous decomposition products	: Burning produces noxious and toxic fumes. In case of fire hazardous decomposition products may be produced such as: Carbon oxides
Incompatible materials	: Oxidizing agents
Conditions to avoid	: Heat, flames and sparks.

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## 11. TOXICOLOGICAL INFORMATION

### General Information

#### Acute toxicity

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

#### Inhalation

: May cause irritation of respiratory tract.  
Vapours may cause drowsiness and dizziness.  
Inhalation of high vapour concentrations can cause CNS-depression and narcosis.  
Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

#### Skin contact

: Irritating to skin.

#### Eye contact

: May cause eye irritation.  
Repeated or prolonged exposure: Inflammation, Redness, Ulceration

#### Ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  
Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia.  
Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

#### Chronic toxicity

##### Chronic toxicity

: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  
Chronic exposure may cause headache, confusion, tremors, memory loss, slurred speech and anorexia.  
Ingestion causes damage of central nervous system, liver, kidneys, blood and bone marrow.  
Repeated exposure may cause skin dryness or cracking.  
Haemopathic effects caused by benzene and all products in which it is contained.  
Changes in the blood count  
Leukaemia

##### Sensitisation

: No sensitization responses were observed.

##### carcinogenic effects

: May cause cancer.

##### Mutagenicity

: May cause heritable genetic damage.

##### Reproductive toxicity

: Possible risk of harm to the unborn child.

## 12. ECOLOGICAL INFORMATION

#### 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 ( Cyprinodon variegatus )

IC50/72h/algae

: 3,3 mg/l

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Mobility : Irritating to respiratory system and skin.

Persistence and degradability : No data available

Bioaccumulation : Bioaccumulation is unlikely.  
Partition coefficient: n-octanol/water : > 3

Further information : Do not flush into surface water or sanitary sewer system.  
Dispose of as hazardous waste in compliance with local and national regulations.

### 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Where possible recycling is preferred to disposal or incineration.  
Do not burn, or use a cutting torch on, the empty drum.  
Dispose of in accordance with local regulations.  
Empty containers should be transported/delivered using a registered waste carrier to local recyclers for 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) : The following Waste Codes are only suggestions:  
13 07 02\*  
Waste codes should be assigned by the user based on the application for which the product was used.

### 14. TRANSPORT INFORMATION

ADR danger labels :  

#### ADR/RID

Proper shipping name : Gasoline

UN-No : 1203

Class : 3

Packing group : II

#### ADNR

#### IMDG

Proper shipping name : Gasoline

UN-No : 1203

Class : 3

Packing group : II

EmS : F-E, S-E

IMDG Limited Quantities : 1 L

#### ICAO/IATA

Proper shipping name : Gasoline

UN-No : 1203

Class : 3

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UN packing group : II

Other information (transport) : Tunnel restriction code D/E

## 15. REGULATORY INFORMATION

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

Commercial Product Name : UNLEADED 95

Chemical name of the substance : Unleaded Gasoline

Symbol(s):



T - Toxic  
N - Dangerous for the environment  
F+ - Extremely flammable

R-phrase(s) : 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.  
R63 - Possible risk of harm to the unborn child.  
R65 - Harmful: may cause lung damage if swallowed.  
R67 - Vapours may cause drowsiness and dizziness.

S-phrases : S23 - Do not breathe gas/fumes/vapour/spray.  
S36 - Wear suitable protective clothing  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
S53 - Avoid exposure - obtain special instructions before use.  
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.

Extra phrases : Restricted to professional users.

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

CLP pictograms :



Signal word : Danger

CLP Hazard statements : H226 - Flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H411 - Toxic to aquatic life with long lasting effects.  
H340 - May cause genetic defects  
H350 - May cause cancer



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H361d - Suspected of damaging the unborn child.

CLP Precautionary statements : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P201 - Obtain special instructions before use  
P312 - Call a POISON CENTER/doctor/physician if you feel unwell  
P405 - Store locked up

Contains : Gasoline

Extra phrases : Restricted to professional users.

WGK : 3

## 16. OTHER INFORMATION

Text of R phrases mentioned in Section 3 : 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.

H-statements components : 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.

Sources of key data used to compile the datasheet : <http://ecb.jrc.it>  
20100720 CONCAWE C&L update

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.

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