



**SAFETY DATA SHEET UNLEADED  
GASOLINE [95 OCTANE]**

Dok. No : TPR.ÜPM.SDS.0243  
Yayın Tarihi : 04.08.2017  
Rev. No : 2  
Rev. Tarihi : 18.07.2017  
Sayfa No : 1 / 15

**1- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product Identifier**

**Material Name:** Unleaded Gasoline 95 Octane

**CAS No** : 86290-81-5

**EC No** : 289-220-8

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

Use only as a motor fuel for spark ignition engines. Not for aviation use. Should not be used as a solvent nor cleaning agent.

**1.3 Details of the supplier of the substance or mixture**

**Manufacturer/Supplier** : Tüpraş

**Address** : Türkiye Petrol Rafinerileri A.Ş. Genel Müdürlüğü KÖRFEZ/ KOCAELİ

**Telephone** : +90-262 316 30 00

**Fax** : +90-262 316 30 10-11

**e-mail** : [omer.ocak@tupras.com.tr](mailto:omer.ocak@tupras.com.tr)

[sinasi.seymenbasi@tupras.com.tr](mailto:sinasi.seymenbasi@tupras.com.tr)

**1.4 Emergency Telephone Number**

**Telephone** : 114 (UZEM)

**2- HAZARD IDENTIFICATION**

**2.1 Classification of substance or mixture**

Flammable liquids, Category 1	H224
Skin corrosion/irritation, Category 2	H315
Aspiration hazard, Category 1	H304
Toxic to reproduction, Category 2	H361
Germ cell mutagenicity, Category 1B	H340
Carcinogenicity, Category 1B	H350
Specific target organ toxicity -single exposure	H336

Chronic hazards to the aquatic environment,  
Category 2

H411

## 2.2 Label Elements

### Symbols:



GHS02



GHS07



GHS08



GHS09

**Signal Word:** Danger

### Hazard statements

#### Physical Hazards:

**H224-** Extremely flammable liquid and vapor.

#### Health hazards:

**H315-** Causes skin irritation.

**H304-** May be fatal if swallowed and enters airways.

**H361-** Suspected of damaging the unborn child.

**H350-** May cause cancer.

**H340-** May cause genetic defects.

**H336-** May cause drowsiness or dizziness.

#### Environmental Hazards:

**H411-** Toxic to aquatic life with long lasting effects.

### Precautionary statements:

#### Prevention:

**P201** : Obtain special instructions before use.

**P210** : Keep away from heat/sparks/open flames/hot surfaces. - No smoking

**P280** : Wear protective gloves/protective clothing/eye protection/face protection.



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### Response:

**P301+P310 : IF SWALLOWED:** Immediately call a **POISON CENTER** or doctor/physician.

### Storage:

**P403+P233:** Store in a well-ventilated place. Keep container tightly closed.

### Disposal:

**P501 :** Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

### 2.3 Other hazards

#### Health Hazards :

Slightly irritating to respiratory system. A component or components of this material may cause cancer. This product contains benzene which may cause leukaemia (AML acute myelogenous leukaemia). May cause MDS (Myelodysplastic Syndrome).

**Safety Hazards :** Electrostatic charges may be generated during handling. Electrostatic discharge may cause fire. Liquid evaporates quickly and can ignite leading to a flash fire, or an explosion in a confined space.

**Other Information :** This product is intended for use in closed systems only.

## 3- COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

Not applicable

### 3.2 Mixtures

CAS NO:	EINECS NO:	Chemical Composition	Concentration	Risk Phrases
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86290-81-5	289-220-8	A complex mixture of volatile hydrocarbons containing paraffin, naphthenes, olefins and aromatics with carbon numbers predominantly between C4 and C12.	85-100	Flammable liquids,1 H224 Skin corrosion/irritation,2 H315 Aspiration hazard,1 H304 Toxic to reproduction,2 H361 Germ cell mutagenicity,1B H340 Carcinogenicity,1B H350 Specific target organ toxicity - single exposure 3 H336 Chronic hazards to the aquatic environment, 2 H411
71-43-2	200-753-7	Benzene	0-1	Flammable liquid and vapour, 2, H225 Causes skin irritation,2 H315 Causes serious eye irritation, 2, H319 May cause genetic defects, 1B, H340 Carcinogenicity,1A, H350 Causes damage to organs through prolonged or repeated exposure 1,H372 Aspiration hazard 1, H304
1634-04-4	216-653-1	Metil Tertiary Butil Ether(MTBE)	0-15	Flammable liquid and vapour, 2, H225 Causes skin irritation 2, H315
64-17-5	200-578-6	Ethanol	0-5	Flammable liquid and vapour, 2, H225



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### 4- FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

**Inhalation:** Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**Skin Contact:** Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Eye contact:** Flush eyes with water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision, or swelling persist transport to the nearest medical facility for additional treatment.

**Ingestion:** If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. .

#### 4.2 Most important symptoms/effects, acute & delayed

**Inhalation:** If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath.

**Skin Contact:** Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

**Eye contact:** Eye irritation signs and symptoms may include a burning sensation and a temporary redness of the eye.

**Ingestion:** Swallowing can cause lung damage.

#### 4.3 Indication of immediate medical attention and special treatment needed

There is no specific antidote or treatment. It should be treated symptomatically.

### 5- FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

### 5.2 Special hazards arising from substance or mixture

Combustion results from toxic gases. It can burn at high temperatures.

### 5.3 Advice for fire-fighters

Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

## 6- ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Refer to section 8.

### 6.2 Environmental precautions

Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

### 6.3 Methods and material for containment and cleaning up

For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

### 6.4 Reference to other sections

Refer to sections 8 and 13.

## 7- HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid all personal contact. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Never siphon by mouth. The vapor is heavier than air, spreads along the ground and distant ignition is possible. Avoid exposure.

### 7.2 Conditions for safe storage, including any incompatibilities

Tank storage: Tanks must be specifically designed for use with this product. Bulk storage tanks should be diked (bunded). Locate tanks away from heat and other sources of ignition. Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions..

### 7.3 Specific end use

Except as provided in Section 1.2 is not required to offer any specific suggestions.

## 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

The following limits are recommended.

#### **Gasoline:**

ACGIH (USA) : TLV 300 ppm (8hr TWA); 500 ppm (15min STEL)

A3-Animal Carcinogen

#### **Benzene:**

ACGIH (USA) : TLV 0.5 ppm (8hr TWA); 2.5 ppm (15min STEL)

A1-Confirmed human carcinogen

### 8.2 Exposure controls



### 8.2.1 Appropriate engineering controls

Ensure good ventilation.

### 8.2.2 Personal protective precautions

**Personal Protective Equipment:** Personal protective equipment (PPE) should meet recommended national standards.

**Eye Protection:** Chemical splash goggles (chemical monogoggles).

**Skin Protection:** Protective clothing and gloves should be used.

**Protective clothing :** Chemical resistant gloves are recommended. Safety glasses with side shields are recommended.

## 9- PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

	Test Unit	Guarantee	Test Method
Appearance		Clear and Bright	Visual inspection
Odour		Hydrocarbon	
Odour threshold		No data	
pH		No data	
Melting point / freezing point		No data	
Initial boiling point and boiling range	°C	25-210	
Evaporation rate		No data	
Flammability		No data	
Upper / lower flammability or explosive limits	%(V)	1/8	
Vapor Pressure	kPa	45-90	TS EN 13016-1
Vapor density(Air=1)	kPa	3 at 101	
Relative density (at 15 °C)	Kg/L	0.720-0.775	TS 1013 EN ISO 3675 TS EN ISO 12185
Resolution		No data	
Partition coefficient: n-octanol / water		No data	
Decomposition temperature		No data	
Fluidity (Viscosity) (40 °C)	cSt	0.5-0.75	TS 1451 EN ISO 3104
Auto Ignition temperature	°C	>250	
Explosive properties		No data	
Oxidising properties		No data	

## 9.2 Other Information

Mixibility	No data
Oil solubility	No data
Conductivity	No data

## 10- STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable at ambient temperatures.

### 10.2 Chemical Stability

Stable under normal conditions of use.

### 10.3 Possibility of Hazardous Reactions

Product vapors may form explosive mixtures with air.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition source.

### 10.5 Incompatible materials

Strong oxidising agents.

### 10.6 Hazardous decomposition products

Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide hazardous gases, including carbon monoxide.

## 11- TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute Oral Toxicity** : Low toxicity: LD50 > 5000 mg/kg , Rat

**Acute Dermal Toxicity** : Low toxicity: LD50 >2000 mg/kg , Rabbit

**Acute Inhalation Toxicity** : Low toxicity: LC50 >5 mg/l / 4 h, Rat

**Skin Corrosion/Irritation** : Irritating to skin.

**Serious Eye Damage/Irritation** : Expected to be slightly irritating.

**Respiratory Irritation** : Based on human experience, breathing of vapors or mists may cause a temporary burning sensation to nose, throat and lungs.

**Respiratory or Skin Sensitization** : Not expected to be a sensitizer.

**Aspiration Hazard** : Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

**Germ Cell Mutagenicity** : May cause heritable genetic damage. (Benzene) Mutagenicity studies on gasoline and gasoline blending streams have shown predominantly negative results.

**Carcinogenicity** : Known human carcinogen. (Benzene) May cause leukemia (AML - acute myelogenous leukemia). (Benzene) Inhalation exposure to mice causes liver tumors, which are not considered relevant to humans.

**Specific target organ toxicity - single exposure** : High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

**Specific target organ toxicity - repeated exposure** : Kidney: caused kidney effects in male rats which are not considered relevant to humans (Toluene)

## 12- ECOLOGICAL INFORMATION

### 12.1 Toxicity

The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

**Acute Toxicity:** Expected to be toxic: (to aquatic organisms) LL/EL/IL50 > 1 <= 10 mg/l (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract).

**Fish:** Expected to be toxic: LL/EL/IL50 > 1 <= 10 mg/l

**Aquatic Invertebrates:** Expected to be toxic: LL/EL/IL50 > 1 <= 10 mg/l

**Algae:** Expected to be toxic: LL/EL/IL50 > 1 <= 10 mg/l

**Microorganisms:** Expected to be harmful: LL/EL/IL50 >10 <= 100 mg/l

### Chronic Toxicity:

**Fish:** NOEC/NOEL expected to be > 1.0 - <= 10 mg/l (based on test data)

**Aquatic Invertebrates:** NOEC/NOEL expected to be > 1.0 - <= 10 mg/l (based on test data)

### 12.2 Persistence and degradability

Expected to be inherently biodegradable. Oxidizes rapidly by photo-chemical reactions in air.

### **12.3 Bioaccumulative potential**

Contains constituents with the potential to bio accumulate.

### **12.4 Mobility in soil**

Floats on water. If product enters soil, one or more constituents will be mobile and may contaminate groundwater..

### **12.5 Results of PBT and vPvB assessment**

The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

### **12.6 Other adverse effects**

Films formed on water may affect oxygen transfer and damage organisms.

## **13- DISPOSAL CONSIDERATIONS**

### **3.1 Waste treatment methods**

#### **Material Disposal:**

Dispose of by incineration or other suitable means under conditions approved by the local authority or via a licensed waste disposal contractor. At sea, used or unwanted product should be stored for eventual discharge into port approved waste oil disposal facilities. Empty packages may contain some remaining product. Hazard warning labels are a guide to the safe handling of empty packaging and should not be removed.

#### **Container Disposal:**

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard if heated above the flash point.

#### **Local Legislation:**

Ministry of Environment and Urbanism "Regulation on Control of Waste"

#### 14- TRANSPORT INFORMATION

##### Land transport (ADR/RID):

##### ADR

14.1 UN Number : 1203

14.2 UN proper shipping name : PETROL

14.3 Transport hazard class(es) : 3

14.4 Packing group : II

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

##### RID

14.1 UN Number : 1203

14.2 UN proper shipping name : PETROL

14.3 Transport hazard class(es) : 3

14.4 Packing group : II

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

##### Inland waterways transport (ADN): 7

14.1 UN Number : 1203

14.2 UN proper shipping name : GASOLINE

14.3 Transport hazard class(es) : 3

14.4 Packing group : II

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

##### Sea transport (IMDG Code):

14.1 UN Number : 1203



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**14.2 UN proper shipping name : PETROL**

**14.3 Transport hazard class(es) : 3**

**14.4 Packing group : II**

**14.5 Marine pollutant : Yes**

**14.6 Special precautions for user : Refer to Chapter 7**

**Air transport (IATA):**

**14.1 UN Number : 1203**

**14.2 UN proper shipping name : GASOLINE**

**14.3 Transport hazard class(es) : 3**

**14.4 Packing group : II**

**14.5 Environmental hazards : Environmentally Hazardous**

**14.6 Special precautions for user : Refer to Chapter 7**

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

No data.

## **15-REGULATORY INFORMATION**

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

This Safety Data Sheet, Environment and Urban Planning Ministry by December 13, 2014 date and 29204 numbered published in the Official Gazette of Hazardous Substances Regulation on safety data sheets of mixtures' Environment and Forestry and the Ministry of 26 by December 2008, and 27092 (bis) Official Gazette published "Classification of Hazardous Substances and preparations Regulations on Packaging and Labelling 'base is based.

## **16- OTHER INFORMATION**

### **Hazard Statements:**

**H224-** Extremely flammable liquid and vapor.

**H315-** Causes skin irritation.

**H304-** May be fatal if swallowed and enters airways.



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- H361-** Suspected of damaging the unborn child.
- H350-** May cause cancer.
- H340-** May cause genetic defects.
- H336-** May cause drowsiness or dizziness.
- H411-** Toxic to aquatic life with long lasting effects.

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Document Date : 01.10.2015  
Document No : GBF-2101