



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

Dok. No : TPR.YPG.SDS.0243
Yayın Tarihi : 19.11.2008
Rev. No : 4
Rev. Tarihi : 8.03.2022
Sayfa No : 1 / 16

This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).
Commission Regulation (EU) 2020/878 of 18 June 2020.

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

REACH Registration No. 01-2119471335-39

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

Adress :Türkiye Petrol Rafinerileri A.Ş. Genel Müdürlüğü ŞİŞLİ/
İSTANBUL

Telephone : +90 212 878 90 00

Fax : +90 212 211 30 81-82

e-mail : selcen.temeltopallar@tupras.com.tr

yasin.ersoz@tupras.com.tr

1.4 Emergency Telephone Number

Company Telephone : +90 212 878 90 00

2- HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Flammable liquids, Category 1	H224
Skin corrosion/irritation, Category 2	H315

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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

Pictograms:



GHS02

GHS07

GHS08

GHS09

Signal Word: Danger

Hazard statements

H224- Extremely flammable liquid and vapor.

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.

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H411- Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

P201 : Obtain special instructions before use.

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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

Response:

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

Storage:

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

Disposal:

P501 : Dispose of contents/container in accordance with local 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 Substances

Not applicable

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3.2 Mixtures

CAS NO	EINECS NO	Chemical Composition	% Conc.	Classification (Regulation (EC) No 1272/2008)
86290-81-5	289-220-8	Gasoline; (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	tert-butyl methyl 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

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.



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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 and effects, both acute and 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 any 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.

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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.

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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)

(EU) : 3.25 mg/ m³ ; 1 ppm (8hr TWA); Skin

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).

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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	-

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	Test Unit	Guarantee	Test Method
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

No relevant additional information available.

10- STABILITY AND REACTIVITY

10.1 Reactivity

Stable at ambient temperatures.



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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 hazard classes as defined in Regulation (EC) No 1272/2008

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.



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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)

11.2 Information on other hazards

No information available.

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)



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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 Endocrine disrupting properties

No information available.

12.7 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.



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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.

14- TRANSPORT INFORMATION

Land transport (ADR/RID):

- 14.1 UN number or ID 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

Inland waterways transport (ADN): 7

- 14.1 UN number or ID 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 or ID number: 1203
- 14.2 UN proper shipping name : GASOLINE
- 14.3 Transport hazard class(es) : 3
- 14.4 Packing group : II



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14.5 Marine pollutant : Yes

14.6 Special precautions for user : Refer to Chapter 7

14.7. Maritime transport in bulk according to IMO instruments: Not applicable.

Air transport (IATA):

14.1 UN number or ID 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

15- REGULATORY INFORMATION

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

Commission Regulation (EU) 2020/878 of 18 June 2020.

Health and Safety at Work etc. Act 1974 (as amended).

EH40/2005 Workplace exposure limits.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Restrictions (Annex XVII Regulation 1907/2006)

CAS Number: 86290-81-5 Input Number: 28; Sequence No: 875



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Input Number: 29; Sequence No: 1414

CAS Number: 71-43-2 Input Number: 28; Sequence No: 151

Input Number: 29; Sequence No: 1035

Seveso Directive - Control of major accident hazards

P5a Lower-tier 10 tonnes Upper-tier 50 tonnes.

E2 Lower-tier: 200 tonnes Upper-tier: 500 tonnes.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

16- OTHER INFORMATION

The information presented about health, safety and environment issues in this safety data sheet was given by considering of best knowledge and reliable sources at the date of its preparation. Although maximum effort was shown, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization given or implied to practice any patented invention without a valid license. The TÜRPAŞ shall not be responsible for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.

Abbreviations :

REACH : European Regulation on Registration, Evaluation, Authorisation and Restriction of
Chemicals



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- ADR : European Agreement concerning the International Carriage of Dangerous Goods
by Road
- RID : Regulations Concerning the International Transport of Dangerous Goods by Rail
- IMDG : International Maritime Code for Dangerous Goods
- IMO : International Maritime Organization
- ICAO : International Civil Aviation Organization
- IATA : International Air Transport Association
- CLP : Classification, Labelling and Packaging Regulation according to 1272/2008/EC
- IMDG : International Maritime Dangerous Goods
- IATA : International Air Transport Association

Revision

SDS has been rearranged in accordance with the current regulation provisions. The specified sections of this SDS differ from the previous revision: 2, 8, 9, 11, 14, 15, 16.

Issued by

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