



SAFETY DATA SHEET

Biogasoline

According to Regulation (EU) No 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Biogasoline

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

Identified uses Used as fuel for spark ignited engines designed to operate on unleaded gas.

Uses advised against Do not use as aircraft fuel, cleaning agents and solvents.

1.3. Details of the supplier of the safety data sheet

Supplier Akpet Akaryakıt Dağıtım A.Ş.
Akatlar Mahallesi, Ebululla Mardin Caddesi
No: 22 Maya Park Tower I, 34335
Beşiktaş / İstanbul / Turkey
Tel: +90 212 376 66 00
www.lukoil.com.tr
e-mail: info@lukoil.com.tr

Contact Person HSE Manager

1.4. Emergency telephone number

LUKOIL: +90 444 45 85 (7/24)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Liq. 1 - H224

Human health Skin Irrit. 2 - H315; Muta. 1B - H340; Carc. 1A - H350; Repr. 2 - H361fd; STOT SE 3 - H336;

Asp. Tox. 1 - H304

Environment Aquatic Chronic 2 - H411

The Full Text for all hazard statements are displayed in section 16.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Content Gasoline
Benzene



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Hazard Statements

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 or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P243	Take precautionary measures against static discharge.
P260	Do not breathe vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P370+378	In case of fire: Use foam, carbon dioxide or dry powder for extinction.
P501	Dispose of contents/container in accordance with national regulations.
RCH002	Restricted to professional users.

2.3. Other hazards

Inhalation of high vapor concentrations may cause drowsiness, dizziness, headache, nausea and loss of coordination. In case of prolonged inhalation may occur unconsciousness. Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema/cracking and oily acnes. Components of the product may be absorbed through the skin into the body. May cause damage to the liver. Suspected cancer risk. Flowing droplets of the product if inhaled when descending into the stomach or vomiting pass into the lungs can cause serious chemical lung inflammation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Name	EC No.	CAS No.	Content	Classification (EC 1272/2008)
Gasoline; Low Boiling Point Naphtha - Unspecified	289-220-8	86290-81-5	95-99%	Flam. Liq. 1 - H224 Skin Irrit. 2 - H315 Muta. 1B - H340 Carc. 1B - H350 Repr. 2 - H361fd STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411
Ethanol	200-578-6	64-17-5	1-5%	Flam. Liq. 2 - H225
tert-butyl methyl ether <i>synonym: 2-methoxy-2-methylpropane</i>	216-653-1	1634-04-4	1-5%	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315
Benzene	200-753-7	71-43-2	<1%	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Muta. 1B - H340 Carc. 1A - H350 STOT RE 1 - H372 Asp. Tox. 1 - H304



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Composition Comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

General first aid, rest, warmth and fresh air. Get medical attention if any discomfort continues.

Inhalation

Move into fresh air and keep at rest. Rinse nose and mouth with water. If necessary, should be applied artificial respiration and heart massage. If there should be given oxygen. Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth. Keep person under observation. Do not induce vomiting.
If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Skin contact

Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water.

Promptly remove clothing if soaked through and flush skin with water.

Large quantities: Remove contaminated clothing. Flush skin thoroughly with water. Get medical attention if any discomfort continues.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing.

Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

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

Inhalation : Upper respiratory irritation, cough. Headache. Dizziness.

Ingestion : Nausea, vomiting, diarrhea. Headache. Dizziness.

Skin contact : May cause redness and irritation.

Eye contact : Eye irritation, redness, lacrimation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use: Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, earth, water mist.

Unsuitable extinguishing media DO NOT use water jet.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Vapours may form explosive mixtures with air.

Vapor is heavier than air so that it can leaking to sewer system and may reach to further ignition sources.

Specific hazards

Result of thermal decomposition may occur fume, carbon oxides and organic compounds with low molecular weight compounds which are not yet considered. Sulfur oxides (SO_x). Nitrogen oxides (NO_x).



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5.3. Advice for firefighters

Special Fire Fighting Procedures

Dike and collect extinguishing water.
Keep away all non-emergency personnel from fire area.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Fires in enclosed places should be extinguished by trained personnel wearing protective clothing and an oxygen mask.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.
Do not smoke, use open fire or other sources of ignition (cigarette, portable electrical devices such as battery-operated flashlight, radio, mobile phone). Immediately shut the devices in the environment which can cause sparkles.
Provide adequate ventilation. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Avoid discharge to the aquatic environment.
Vapor is heavier than air so that it can leaking to sewer system and may reach to further ignition sources.
Inform the relevant authorities in case of seepage large quantity into water resources.

6.3. Methods and material for containment and cleaning up

Keep all ignition sources away from spilled material. Absorb spilled product such as vermiculite, sand or (without absorbing water) suitable non-combustible, absorbing materials and place a container for later disposal.
Spilled liquid will evaporate completely in enclosed area so that adequate ventilation must be done and should be entered with protective clothing after measurement.
Large spills should be extinguished by using foam and must remain in foam cover until danger is over.
Recollecting the spilled product should be done by qualified personnel.
Barrier should be used to prevent the spread when poured into water and product should be recollected on the water surface.

6.4. Reference to other sections

For personal protection, see section 8.
See section 11 for additional information on health hazards.
For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Use appropriate goggles and gloves. Keep away from heat, sparks and open flame.
During application and drying, solvent vapours will be emitted. Do not eat, drink or smoke when using the product.
Container must be kept tightly closed. It should not be drawn into mouth.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.
Keep away from food, drink and animal feeding stuffs. Protect against physical damage and/or friction.
It should be stored in tanks designing according to the product. If the product contacts with hot surfaces there are ignition or explosion hazards. Storage tanks should be labeled and should be kept closed when out of use.
Do not remove the warning signs since some products may be present in empty tanks.
Despite the possibility of the empty tanks containing product vapor should not be done cutting, welding, soldering processes.
If the concentration of hydrocarbon vapor is more than 1%, oxygen concentration is less than 20% in the tank should not be entered without oxygen mask.

There is possibility of ignition vapour of product are collected in the storage tanks. Therefore, static electricity must be discharged.
Measures should be taken against the igniton source while filling and discharge.
Equipments such as pumps etc. must be earthed or transmission cables must be connected each other by a cable to avoid accumulation of static electricity.



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7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Ethanol	WEL	1000 ppm	1920 mg/m ³			
Benzene	ACGIH	0.5 ppm		2.5 ppm		
Gasoline; Low Boiling Point Naphtha - Unspecified	ACGIH	300 ppm		500 ppm		

ACGIH = American Conference of Industrial Hygienists

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

Appropriate respiratory equipment should be used when the possibility of exposure to hydrocarbon vapor.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Eye protection

Wear approved safety goggles.

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Hygiene measures

Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke. Wash hands after contact. Wash promptly if skin becomes contaminated.

Skin protection

Protective clothing should be worn. Anti-static and flame-retardant protective clothing is recommended to wear.

Environmental Exposure Controls

Please act in accordance with local and national laws.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Identifier	Unit	Value	Test method
Appearance		Liquid	



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Colour		Colorless	
Odour		Characteristic	
Density, 15 °C	kg/m ³	720-775	TS 1013 EN ISO 3675 TS EN ISO 12185
Flash Point	°C	<21	
Boiling point	°C	30 - 260	
Vapor pressure (RVP)	kPa	45 - 60 (Summer) 60-90 (Winter)	TS EN 13016-1
Aromatics	% volume	Max.35	TS EN ISO 22854 TS EN 15553

9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.
Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. Conditions to avoid

Should be kept away from sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Avoid contact with strong reducing agent (oxidizing) and strong acids.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Serious eye damage / irritation

May cause irritation.

Skin corrosion/irritation

Causes skin irritation.

Skin and respiratory sensitivity

Can cause skin disorders like eczema (dermatitis). When exposed to sunlight, a photo-sensitivity can be developed as evidenced by the persistent repetition of a dermatic rash.

Germ cell mutagenicity:

Genotoxicity - In Vitro/ In Vivo

May cause genetic defects.

Carcinogenicity:

May cause cancer.



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Reproductive Toxicity – Fertility/ Development

Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure:

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure:

No information required.

Aspiration hazard

May be fatal if swallowed and enters airways.

Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Ingestion

It is harmful if swallowed in small doses. If swallowed a greater amount causes nausea and diarrhea. If exceed to lungs damages during vomiting

Skin contact

Irritant. May cause skin dryness or cracking.

Eye contact

May cause temporary eye irritation. Visual disturbances including blurred vision.
In case of accidentally eye contact causes temporary blindness.

BENZENE (CAS: 71-43-2)

Toxic Dose 1 - LD 50 5600 mg/kg (oral - rat)
Toxic Conc. - LC 50 16000 ppm/1h (inhalation - rat)

GASOLINE; LOW BOILING POINT NAPHTHA - UNSPECIFIED (CAS: 86290-81-5)

Toxic Dose 1 - LD 50 >5000 mg/kg (oral - rat)
Toxic Dose 2 - LD 50 >2000 mg/kg (dermal - rabbit)
Toxic Conc. - LC 50 > 5610 mg/m³ (inhalation - rat)

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Spillages prevent the transfer of oxygen by forming a film layer on the water surface.

GASOLINE; LOW BOILING POINT NAPHTHA - UNSPECIFIED (CAS: 86290-81-5)

LC 50, 96 Hrs, Fish 10 mg/l Oncorhynchus mykiss
LC 50, 96 Hrs, Fish 8.2 mg/l Pimephales promelas
EC 50, 48 Hrs, Daphnia 4.5 mg/l Daphnia magna
EC 50, 72 Hrs, Algae 3.1 mg/l Pseudokirchneriella subcapitata

Etanol (CAS: 64-17-5)

LC 50, 96 Hrs, Fish 11000 mg/l Alburnus alburnus
EC 50 48 Hrs, Daphnia 3715-6772 mg/l
IC 50, 72 Hrs, Algae 9310 mg/l Chlorella pyrenoidosa

12.2. Persistence and degradability

This product is soluble in the soil without harming the environment.

12.3. Bioaccumulative potential

The product contains potentially bioaccumulating substances.



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12.4. Mobility in soil

Product is insoluble in water. Product spreads on water when certain components collapsed on the water system. Volatile components of the product will be dispersed into the atmosphere.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Very toxic to aquatic life with long lasting effects. Oil spill is generally hazardous for the environment. Volatile components in the product have the photochemical ozone formation potential.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Disposed of as hazardous waste. Waste must be treated as the product itself.

13.1. Waste treatment methods

Empty containers, dispose of waste and residues in accordance with legislation of the local authority. Environmental manager must be informed of all major spillages. Make sure containers are empty before discarding. Empty containers must not be burned because of explosion hazard. Please recycle empty pack in accordance with legislation of the local authority. Do not re-use empty containers. Some products may remain in empty containers. Do not perform heat treatment without erased or removed danger signs or labels from empty containers.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1203
UN No. (IMDG)	1203
UN No. (ICAO)	1203

14.2. UN proper shipping name

Proper Shipping Name	GASOLINE
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	



14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II



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14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

EMS	F-E, S-E
ADR transport category	2
Emergency Action Code	3YE
Hazard No. (ADR)	33
Tunnel restriction code	(D/E)
Limited quantities	1 L

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

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

UK Regulatory References

Chemicals (Hazard Information & Packaging) Regulations.
Fire precautions Act 1971.

Environmental Listing

No listing noted.

Statutory Instruments

Export of Dangerous Chemicals Regulations.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

EU Legislation

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.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations used in safety data sheet

ADR: European Agreement on International Carriage of Dangerous Goods by Road.
ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement on International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO-TI: Technical Specification for Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
TWA: Time weighted average
ATE: Estimated value of acute toxicity
EC No: European Community number



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CAS: Chemical Theory Service.

LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).

LC50: Substance concentration causing 50% (half) death in the test animals group.

EC50: Effective Concentration of the substance causing the maximum of 50%.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Permanent, Very Biofriendly.

SEA: Classification, labeling, packaging regulation

DNEL: Derivative Inactive Level

PNEC: Estimated Unaffected Concentration

BHOT: Specific Target Organ Toxicity

Information Sources

This SDS is written based on the information received from rawmaterial supplier.
European Chemicals Agency (ECHA)

Revision Comments

This form is designed for the first time for this product.

Hazard Statements In Full

H372	Causes damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H224	Extremely flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H225	Highly flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361fd	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Classification procedures

Flam. Liq. 1 - H224	: Based on the test data.
Asp. Tox. 1 - H304	: Calculation method.
Skin Irrit. 2 - H315	: Calculation method.
STOT SE 3 - H336	: Calculation method.
Muta. 1B - H340	: Calculation method.
Carc. 1A - H350	: Calculation method.
Repr. 2 - H361fd	: Calculation method.
Aquatic Chronic 2 - H411	: Calculation method.

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Issued Note

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