



SAFETY DATA SHEET

Denizcilik Yakıtı (ULSFO - Ultra-Low Sulphur Fuel Oil- %0,1 Sulphur)

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Denizcilik Yakıtı (ULSFO - Ultra-Low Sulphur Fuel Oil- %0,1 Sulphur)
CAS number	68476-33-5
EC number	270-675-6

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

Identified uses	Sanayide kazan ve fırın yakıtı olarak kullanılır.
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1.3. Details of the supplier of the safety data sheet

Supplier	PETROL OFİSİ A.Ş. Ünalan Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar/ İstanbul Tel: +90 850 339 1919 Fax: +90 216 275 3854 madeniyag@petrolofisi.com.tr
Contact person	0 800 211 02 29 0 555 675 55 55 info@poas.com.tr, Customer Services: madeniyag@petrolofisi.com.tr

1.4. Emergency telephone number

National emergency telephone number	Emergency Medical Services: 112
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H332 Carc. 1B - H350 Repr. 2 - H361 STOT RE 2 - H373
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

EC number	270-675-6
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Hazard pictograms



Signal word	Danger
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Hazard statements	H332 Harmful if inhaled. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
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Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe vapour/ spray.
P261 Avoid breathing vapour/ spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

Contains

Fuel oil, artık

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Fuel oil, artık	95-100%
CAS number: 68476-33-5	
M factor (Acute) = 1	M factor (Chronic) = 1
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Carc. 1B - H350 Repr. 2 - H361 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	In case of irritation or coughing in the nose and throat as a result of gas inhalation, the affected person transport to fresh air. Respiratory protection should be worn if breathing stops. If symptoms persist, consult a physician.
Ingestion	DO NOT induce vomiting. Get medical attention immediately. Rinse mouth thoroughly with water. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Skin contact	Remove contaminated clothing and rinse skin thoroughly with water. If in doubt, get medical attention promptly.
Eye contact	Göz kapaklarını açık tutarak bol su ile yıkayınız. Kızarıklık veya ağrı varsa doktora kontrol ettirilmelidir. Sıcak ürün göze kaçmışsa bol soğuk su dökünüz. Geciktirmeden hastaneye kaldırınız.

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

Inhalation	Repeated exposure may cause chronic upper respiratory irritation.
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Ingestion	Harmful: may cause lung damage if swallowed.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause eye irritation. Redness.

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

Specific treatments	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Using a water jet can be inconvenient.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Not flammable. Heating causes rise in pressure with risk of bursting. Forms explosive mixtures with air.
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5.3. Advice for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours and contact with skin and eyes. Take precautionary measures against static discharges.
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6.2. Environmental precautions

Environmental precautions	Avoid contamination of ponds or watercourses with washing down water.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Sıcaklığına bağlı olarak sıvı, yarı katı ve katı halde olabilir. Dökülen ürün yüzeyi kaygan yapar. Dökülen ürünü kum ve benzeri absorbe edici madde ile hemen temizleyiniz. Dökülen ürünün drain sistemine kaçmasını önleyiniz. Dökülen ürünü tutuşturma kaynaklarından izole ediniz. İyi bir havalandırma sağlayınız. Kapalı alanda dökülen sıcak sıvıdan H2S yayılabileceğinden oksijen maskesi kullanan eğitimli personel tarafından müdahale edilmelidir. Geniş alana yayılan döküntüler tehlike bitene kadar köpük örtüsünde kalmalıdır. Dökülen ürünün geri toplanması uzman personel tarafından yapılmalıdır. Suya döküldüğünde yayılmasını engellemek için bariyer kullanılmalı ve su yüzeyindeki ürün geri toplanmalıdır.Dökülmesi durumunda konunun uzmanlarıyla temas kurunuz.
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6.4. Reference to other sections

Reference to other sections	For waste disposal, see Section 13. For personal protection, see Section 8.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Do not breathe vapours. Do not spray on an open flame or other ignition source. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid skin contact. Avoid contact with skin, eyes and clothing. Earth container and transfer equipment to eliminate sparks from static electricity.
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7.2. Conditions for safe storage, including any incompatibilities



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Storage precautions Store in a well-ventilated appropriate place. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

None of the components has assigned exposure limits.

8.2. Exposure controls

Appropriate engineering controls	Ensure good ventilation. Eye / face washing units and safety showers should be installed close to the work area for use in case of emergency, injury and exposure. Static electricity and formation of sparks must be prevented.
Eye/face protection	Chemical splash goggles (chemical monogoggles). Approved to EU Standard EN166. Use safety goggles and face shield in case of splash risk.
Other skin and body protection	Cilde temasını önlemek için koruyucu elbise ve eldiven kullanılmalıdır.
Respiratory protection	Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Combination filter, type A2/P2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Black.
Odour	Characteristic.
Odour threshold	No information required.
pH	No information required.
Melting point	<30°C
Initial boiling point and range	>350°C
Flash point	>60°C
Evaporation rate	No information required.
Evaporation factor	No information required.
Flammability (solid, gas)	No information required.
Upper/lower flammability or explosive limits	No information required.
Other flammability	No information required.
Vapour pressure	0,5 kPa @ 20°C
Vapour density	No information required.
Relative density	0.80 – 0.99 g/cm ³ @ at 15°C
Bulk density	No information required.
Solubility(ies)	No information required.



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Partition coefficient	No information required.
Auto-ignition temperature	> 225°C
Decomposition Temperature	No information required.
Viscosity	7 – 20.5 mm ² /s at 40 °C (<60 mm ² /s at 100 @ °C
Explosive properties	No information required.
Explosive under the influence of a flame	No suitable data is available.
Oxidising properties	No data available.
Particle characteristic	Not applicable

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Will not polymerise.
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10.4. Conditions to avoid

Conditions to avoid	Keep away from heat, sparks and open flame.
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10.5. Incompatible materials

Materials to avoid	Avoid contact with strong reducing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Termal bozunma ürünleri şartlara göre değişir. Hydrogen sulphide (H ₂ S). In the event of incomplete combustion, smoke, carbon dioxide and carbon monoxide are formed.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Acute toxicity - oral

Summary	LD50 >2000 mg/kg (rat)
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Acute toxicity - dermal

Summary	LD50 >2000 mg/kg (rabbit)
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Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	11.0
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Skin corrosion/irritation

Skin corrosion/irritation Prolonged contact may cause redness, irritation and dry skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation. Causes serious eye damage.

Carcinogenicity

Carcinogenicity May cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility Contains a substance/a group of substances which may damage fertility.

Specific target organ toxicity - single exposure

STOT - single exposure Scientifically unjustified.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Target Organ(s): digestive organs, Immune system, Liver

Aspiration hazard

Aspiration hazard Classification not possible.

Inhalation

Sis veya buharı solunursa göz, burun ve boğazı tahriş eder.

Ingestion

Küçük dozda yutulursa zararlıdır. Daha fazla miktarda yutulursa mide bulantısı ve ishale neden olur. Kusma sırasında akciğere geçerse zarar verir.

11.2 Information on other hazards

Information on other hazards No available information.

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability Degradable in soil without harming environment. No data exists relating to accumulation in soil.

12.3. Bioaccumulative potential

Partition coefficient No information required.

12.4. Mobility in soil

Mobility The product is insoluble in water and will spread on the water surface. The product contains volatile substances which may spread in the atmosphere.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6 Endocrine disrupting properties

Endocrine disrupting properties This product does not have endocrine disrupting properties.

12.6. Other adverse effects



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Other adverse effects

This product contains components that have a harmful effect on the aquatic environment. Do not allow to enter into soil, rivers or sewers.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Dispose of waste via a licensed waste disposal contractor. This material and its container must be disposed of as hazardous waste.

Disposal methods

Empty containers must not be punctured or incinerated because of the risk of an explosion. Empty containers or liners may retain some product residues and hence be potentially hazardous. Do not reuse empty containers.

SECTION 14: Transport information

General

For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

UN number or ID number

14.2. UN proper shipping name

Proper shipping name (IMDG) ALEVLENEBİLİR SIVI, B.B.B.

14.3. Transport hazard class(es)

3

14.4. Packing group

I

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

Evet

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Maritime transport in bulk according to IMO instruments Not applicable

SECTION 15: Regulatory information

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



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National regulations

T. C. Regulation on the Classification, Labeling and Packaging of Substances and Mixtures No. 28848, dated 11 December 2013, by the Ministry of Environment and Urbanization.
T. C. The Ministry of Labor and Social Security, Regulation on the Use of Personal Protective Equipment at Workplaces No. 28695 dated July 2, 2013

T.C. Çalışma ve Sosyal Güvenlik Bakanlığı, 30 Haziran 2012 tarihli, 6331 sayılı, İş Sağlığı ve Güvenliği Kanunu.
T.C. Çalışma ve Sosyal Güvenlik Bakanlığı, 30 Haziran 2012 tarihli, 6331 sayılı, İş Sağlığı ve Güvenliği Kanunu.
T.C. Çevre ve Şehircilik Bakanlığı, 2 Nisan 2015 tarihli, 29314 sayılı, Atık Yönetimi Yönetmeliği.
T.C. Çevre ve Şehircilik Bakanlığı, 23 Haziran 2017 tarihli, 30105 sayılı, Kimyasalların Kaydı, Değerlendirilmesi, İzni Ve Kısıtlanması Hakkında Yönetmelik.

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
ATE: Acute Toxicity Estimate.
CAS: Chemical Abstracts Service.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
LC₅₀: Lethal Concentration to 50 % of a test population.
EC₅₀: 50% of maximal Effective Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.

Training advice

Untrained personnel should not use.

Revision comments

Revised classification.

Issued by

Sena Ezgi Selçuk Chemical Assessment Specialist (Certificate No: KDU01.29.06 17.12.2027)

Revision date

10/03/2025

Revision

1

Supersedes date

20/01/2025

SDS number

20923



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Hazard statements in full

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H350 May cause cancer.
H350 May cause cancer if swallowed.
H361 Suspected of damaging fertility or the unborn child.
H361 Suspected of damaging fertility or the unborn child if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed or if inhaled.