

This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).

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

1.1 Product Identifier

Material Name : Gasoil
CAS No : 68334-30-5
EC No : 269-822-7
Other Names of Product: Tüpraş-410 Diesel Fuel (F-54)
Tüpraş-411 Diesel Fuel (F-76)
Tüpraş-415 Marine Diesel (DMA)
High Sulphur Diesel Fuel

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

Fuel for compression ignition diesel engines.

1.3 Details of the supplier of the substance or mixture

Manufacturer/Supplier : Tüpraş
Adress : Türkiye Petrol Rafinerileri A.Ş. Genel Müdürlüğü KÖRFEZ/
KOCAELİ
Telephone : +90 262 316 30 00
Fax : +90 262 316 30 10-11
e-mail : selcen.temeltopallar@tupras.com.tr
yasin.ersoz@tupras.com.tr

1.4 Emergency Telephone Number

Company Telephone : +90 262 316 30 00

2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids, Category 3	H226
Acute toxicity, Category 4	H332
Aspiration hazard, Category 1	H304

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Carcinogenicity, Category 2	H351
Specific target organ toxicity - repeated exposure, Category 2	H373
Skin corrosion/irritation, Category 2	H315
Hazardous to the aquatic environment – Longterm Hazard, Category 2	H411
EUH066	Repeated exposure may cause skin dryness or cracking

Label Elements

Labelling according to Regulation (EC) No 1272/2008.

Symbols:



GHS02

GHS07

GHS08

GHS09

Signal Word: Danger

Hazard statements

Physical Hazards:

H226 Flammable liquid and vapor.

Health hazards:

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H373 May cause damage to organs or organ systems through prolonged or repeated exposure.

EUH066 Repeated exposure may cause skin dryness or cracking.

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Environmental Hazards:

H411.Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

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

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P270 Do not eat, drink or smoke when using this product.

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

Response:

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

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P331 Do NOT induce vomiting.

Storage:

P403 Store in a well-ventilated place.

Disposal:

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

2.3 Other hazards

No data.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

CAS NO	EINECS NO	Chemical Composition	% Conc.	Risk Phrases (Regulation (EC) No 1272/2008)
68334-30-5	269-822-7	Complex mixture of middle distillate hydrokarbons, with carbon numbers in C10	100	Flammable liquids,3 H226 Acute toxicity, 4,H332 Aspiration hazard,1, H304 Carcinogenicity, 2, H351

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		to C28 range. Performance enhancing additives may be included.		Specific target organ toxicity- repeated exposure, 2, H373 Skin corrosion/irritation, 2, H315 Hazardous to the aquatic environment, Longterm Hazard, H411 Repeated exposure may cause skin dryness or cracking, EUH066
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3.2 Mixtures

Not applicable.

4. FIRST-AID MEASURES

4.1 Description of First Aid Measures

Inhalation: If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

Skin Contact: Remove heavily contaminated clothing and wash underlying skin. 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.

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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

Treat 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. DO NOT USE water jets.

5.2 Special hazards arising from substance or mixture

Combustion results toxic gases. Hazardous combustion products are carbon oxides, sulphur Oxides, nitrogen oxides, carbon monoxide. It can burn at high temperatures.

5.3 Advice for fire-fighters

Ensure an escape path is always available from any fire. 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

Wear suitable protective clothing, gloves and eye/face protection. Ventilate contaminated area. Do not breathe fumes, vapour. Do not operate electrical equipment. Remove all possible sources of ignition in the surrounding area. Take precautionary measures against

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static discharge. In case of fire: Wear self-contained breathing apparatus. Emergency cooling must be provided. Remove product from area of fire.

6.2 Environmental precautions

Do not allow to enter into ground water, surface water or drains. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3 Methods and material for containment and cleaning up

Take precautionary measures against static discharges. 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. 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. Shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations.

6.4 Reference to other sections

Refer to sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety procedures. Ensure good ventilation and avoid as far as reasonably practicable the inhalation and contact with vapours. Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Avoid inhaling vapour and/or mists. Do not smoke. Remove ignition sources. Avoid sparks. Earth all equipment. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

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7.2 Conditions for safe storage, including any incompatibilities

Drum and small container storage: Drums should be stacked to a maximum of 3 high. Use properly labelled and closeable containers. 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. Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Vapors from tanks should not be released to atmosphere. Breathing losses during storage should be controlled by a suitable vapor treatment system. The vapor is heavier than air. Beware of accumulation in pits and confined spaces. Keep container tightly closed and in a cool, wellventilated place. Keep in a cool place. Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk. The vapors in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable. Refer to section 15 for any additional specific legislation covering the packaging and storage of this product. Keep in a bunded area with a sealed (low permeability) floor, to provide containment against spillage. Prevent ingress of water.

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

Material	Exposure Limits
Gasoil (CAS 68334-30-5)	TWA(8 hours) : 100 ppm (ACGIH- Total hydrocarbon)

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharges.

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Ensure that the equipment is adequately grounded.

Use explosion-proof machinery, apparatus, ventilaton facilities, tools.

8.2.2 Personal protective precautions

Personal protective equipment:

Eyes: Wear chemically resistant gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substance.

Use suitable eye protection.

Skin: Wear suitable coveralls to prevent exposure to the skin. In case of large spillages; wear full chemical protective clothing.

Wear chemically resistant gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substance.

Inhalation: In case of insufficient ventilation, wear suitable respiratory equipment. In case of fire: Wear self-contained breathing apparatus.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

	Test Unit	Guarantee	Test Method
Odour		Hydrocarbon	
Odour threshold		No data	
pH		No data	
Melting point / freezing point		No data	
Initial boiling point and boiling range	°C	160-385	TS 1232 EN ISO 3405
Evaporation rate		No data	

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	Test Unit	Guarantee	Test Method
Flash Point, min	°C	55	TS EN ISO 2719
Vapor Pressure		No data	
Vapor density		No data	
Relative density (at 15°C)	Kg/L	0.800-0.890	TS 1013 EN ISO 3675 TS EN ISO 12185
Fluidity (Viscosity) (40 °C)	cSt	1.5-6.0	TS 1451 EN ISO 3104
Ignition temperature	°C	>55	TS EN ISO 2719

9.2 Other Information

No relevant additional information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

In case of combustion, CO₂, SO₂, NOX, CO may form.

10.2 Chemical Stability

Stable under normal conditions.

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

Hazardous decomposition products are not expected to form during normal storage. Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information given is based on product data, a knowledge of the components and toxicology of similar products.

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

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

Acute Inhalation Toxicity : Harmful if inhaled. LC50 > 1.0 - <= 5.0 mg/l / 4 h, Rat

Skin Corrosion/Irritation : Irritating to skin.

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

Respiratory Irritation : Inhalation of vapors or mists may cause irritation to the respiratory system.

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 : Positive in in-vitro, but negative in in-vivo mutagenicity assays.

Carcinogenicity : Limited evidence of carcinogenic effect. Repeated skin contact has resulted in irritation and skin cancer in animals.

Reproductive and Developmental Toxicity: Not expected to be a developmental toxicant. Not expected to impair fertility.

Specific target organ toxicity - single exposure : Not classified.

Specific target organ toxicity - repeated exposure : May cause damage to organs or organ systems through prolonged or repeated exposure. Blood. Thymus. Liver.

12. ECOLOGIAL INFORMATION

12.1 Toxicity

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

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Acute Toxicity:

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

In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels.

12.2 Persistence and degradability

Major constituents are inherently biodegradable. The volatile constituents will oxidize rapidly by photochemical reactions in air.

12.3 Bioaccumulative potential

Contains constituents with the potential to bio accumulate.

12.4 Mobility in soil

Partly evaporates from water or soil surfaces, but a significant proportion will remain after one day. If product enters soil, one or more constituents will be mobile and may contaminate groundwater. Large volumes may penetrate soil and could contaminate groundwater. Floats on water.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

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

13. DISPOSAL CONSIDERATIONS**13.1 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.

Local Legislation:

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

14. TRANSPORT INFORMATION

ADR/RID

14.1 UN Number : 1202

14.2 UN proper shipping name : GASOIL

14.3 Transport hazard class(es) : 3

14.4 Packing group : III

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 : 1202

14.2 UN proper shipping name : GASOIL

14.3 Transport hazard class(es) : 3

14.4 Packing group : III

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

Sea transport (IMDG Code):

14.1 UN Number : 1202

14.2 UN proper shipping name : GASOIL

14.3 Transport hazard class(es) : 3

14.4 Packing group : III

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14.5 Marine pollutant : Yes

14.6 Special precautions for user : Refer to Chapter 7

Air transport (IATA):

14.1 UN Number : 1202

14.2 UN proper shipping name : GASOIL

14.3 Transport hazard class(es) : 3

14.4 Packing group : III

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

The contents and format of this SDS are in accordance with EEC Commission Directive 1272/2008/EC (CLP) and EEC Commission Regulation 1907/2006/EC (REACH).

15.2 National Regulations

This Safety Data Sheet is accordance with "Regulation on Safety Data Sheets regarding the Hazardous Substances and Mixtures" published on 13 December 2014 on the official Gazette with No:29204.

16. OTHER INFORMATION

16.1 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

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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 practise any patented invention without a valid licence. The TÜPRAŞ 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
- 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

16.2 Related Person

Competent Person Accreditation no: TSE GBF-A-0-2828