

This Safety Data Sheet is prepared according to "Regulation on the Safety Data Sheets Relating to Hazardous Substances and Mixtures" published with the date of 13 December 2014 and No.29204 at Official Gazette.

## 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 Products:

**Tüpraş-410 Diesel Fuel (F-54)**

**Tüpraş-411 Diesel Fuel (F-76)**

**Tüpraş-415 Marine Diesel (DMA)**

### 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** : [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

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

## 2.2 Label Elements

### 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.

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**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.

**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**

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No data.

### 3- COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance

CAS NO:	EINECS NO:	Chemical Composition	Concentration	Risk Phrases
68334-30-5	269-822-7	Complex mixture of mid distillate hydrocarbons, carbon numbers in C10 to C28 range. Performance enhancing additives be included	100	Flammable liquids, 3 H226 Acute toxicity, 4, H332 Aspiration hazard, 1, H304 Carcinogenicity, 2, H351 Specific target organ toxicity repeated exposure, 2, H373 Skin corrosion/irritation, 2, H315 Hazardous to the aquatic environment – Longterm Hazard, H411 EUH066

#### 3.2 Mixtures

Not applicable.

### 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/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

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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

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

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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**

Avoid inhaling vapour and/or mists. Avoid prolonged or repeated contact with skin. When using do not eat or drink. Extinguish any naked flames. 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.

#### **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

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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

The following limits are recommended.

TWA(8 hours) : 100 ppm (ACGIH- Total hydrocarbon)

### 8.2 Exposure controls



#### 8.2.1 Appropriate engineering controls

Ensure good ventilation.

#### 8.2.2 Personal protective precautions



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**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		Amber	Visual inspection
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	
Flammability		No data	
Upper / lower flammability or explosive limits	%(V)	0.6/7.5	
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

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Resolution		No data	
Partition coefficient: n-octanol / water		No data	
Decomposition temperature		No data	
Fluidity (Viscosity) (40 °C)	cSt	1.5-6.0	TS 1451 EN ISO 3104
Ignition temperature	°C	>55	TS EN ISO 2719
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 use 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.

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## 10.5 Incompatible materials

Strong oxidizing 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.

## 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** : 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.

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**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- 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:

**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 practically non toxic: LL/EL/IL50 > 100 mg/l

#### Chronic Toxicity:

**Fish:** NOEC/NOEL expected to be > 0.01 - <= 0.1 mg/l (based on modeled data)

**Aquatic Invertebrates:** NOEC/NOEL expected to be > 0.1 - <= 1.0 mg/l (based on modeled data)

### 12.2 Persistence and degradability

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

### 12.3 Bio accumulative potential

Contains constituents with the potential to bio accumulate.

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#### 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

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

#### 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.

##### 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.

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**Local Legislation:**

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

**15- TRANSPORT INFORMATION****Land transport (ADR/RID):****ADR**

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

**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

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**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

**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.

**16-REGULATORY INFORMATION**

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

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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.

## 17- OTHER INFORMATION

### Hazard Statements:

**H226-** Flammable liquid and vapor.

**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.

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

**EUH066-** Repeated exposure may cause skin dryness or cracking

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Hizmete Özel / Confidential



Türkiye Petrol Rafinerileri A.Ş.

**SAFETY DATA SHEET AUTOMATIVE  
DIESEL FUEL**

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