



SAFETY DATA SHEET

This Safety Data Sheet has been prepared in compliance with "The Regulation on Classifying, Labelling and Packaging Substances and Mixtures" and "The Regulation on Safety Data Sheets regarding Hazardous Substances and Mixtures" published in the Official Gazette (RG) No. 29204 on 13.12.2014.

Product Name: Unleaded Gasoline 95 Octane
First Publish Date: November 2004
Revision Date: 9/13/2018
Revision No: 06

Form No: OPET.GBF.02

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

1.1. Product Name : UNLEADED GASOLINE 95 OCTANE
Product Code : OPET-220
CAS No. : 86290-81-5
EC No. : 289-220-8
Other Names of the Product : UNLEADED SUPER GASOLINE, OPET ULTRA FORCE 95 OCTANE GASOLINE

1.2. It is mainly composed of hydrocarbons including C4 and C12 carbon atoms and paraffins, naphthenes, aromatics and olefins. Use only as a fuel for cars with internal combustion engines. This product should not be used as aircraft and/or diesel motor fuel, a solvent or cleaning agent.

1.3. Company Name : OPET PETROLÇÜLÜK A.Ş.
Address : Barbaros Mah. Gelincik Sokak No.4/A
34746, ATAŞEHİR / İSTANBUL
Phone : 0216 522 90 00
Fax : 0216 522 91 82
E-mail : info@opet.com.tr
MSDS Authorized Personnel : melda.erhan@opet.com.tr
burak.yontar@opet.com.tr

1.4. National Poison Information Center: 114
Emergency Telephone : +90216 522 9000 (8:15-17:15, GMT+3, Monday-Friday)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

2.1.1 Hazards Identification

Flammable Liquid, Category 1: H224

Aspiration Hazard, Category 1: H304

Skin Irritation, Category 2: H315

Specific Target Organ Toxicity (STOT), Single Exposure, Category 3, Respiration: H336

Germ Cell Mutagenicity, 1B: H340

Carcinogenicity, Category 1B: H350

Reproductive Toxicity, Category 2: H361

Specific Target Organ Toxicity (STOT), Repeated Exposure, Category 2, H373

Chronic Aquatic Toxicity, Category 2: H411

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2.2 Label Elements

Hazard Pictograms:



GHS02



GHS08



GHS07



GHS09

Signal Word: Danger

CLP 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.

H361: Suspected of damaging fertility or the unborn child.

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

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

CLP 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.

P241: Use explosion-proof electrical/ventilating/light/.../equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe dust/fumes/gas/mist/vapours/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.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P314: Get medical advice/attention if you feel unwell.

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

P331: Do NOT induce vomiting.

P332+P313: If skin irritation occurs: Get medical advice/attention.

Storage

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

Disposal

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

2.3 Other Hazards

Not classified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Not classified.

3.2 Mixtures

Components	EC Number	CAS Number	Quantity (%wt)	Risk Components
Unleaded Gasoline	289-220-8	86290-81-5	85-100	Flammable Liquids, 1; H224 Aspiration Hazard 1; 304 Skin Corrosion/Irritation, 2; H315 Specific target organ toxicity -single exposure 3, Respiratory; H336 Mutagenicity 1B; H340 Carcinogen, 1B; H350 Toxic to Reproduction 2; H361 Chronic Aquatic Toxicity, 2; H411
Benzene	200-753-7	71-43-2	0-1	Flammable Liquids. 2; H225 Aspiration Hazard 1; 304 Skin Corrosion/Irritation, 2; H315 Eye Irritation, 2; H319 Mutagenicity, 1B; H340

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				Carcinogen, 1A; H350 Specific target organ toxicity – repeated exposure, 1; H372
MTBE (<i>tert</i> -butyl methyl ether)	216-653-1	1634-04-4	0-15	Flammable Liquids, 2; H225 Skin Corrosion/Irritation, 2; H315
Ethanol	200-578-6	64-17-5	0-5	Flammable Liquids, 2; H225
<u>Additive</u>	-	-	<u>0-0,05</u>	<u>Skin Corrosion/Irritation, 2; H315</u> <u>Carcinogen, 2; H351</u> <u>Chronic Aquatic Toxicity, 3; H412</u>

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

EYE:

In case of eye contact, wash eyes with copious quantities of water (for approximately 15 minutes). Note that your eyes should be open during washing. Check the presence of contact lenses and remove. In case of blurred vision, swelling, burning or redness in eyes, get medical attention immediately.

SKIN:

Take the contaminated clothes off and wash skin with water and solid soap (at least for 15 minutes). Do not use any other solvent for cleaning. In case of long-term contact, wash the skin with copious quantities of water. In case of redness, swelling or pain in the skin, get medical attention immediately.

INHALATION:

If exposure to vapor, steam, or fume leads to dizziness, headache, blurred vision or irritation in eyes, nose or throat; the exposed person should be removed to fresh air immediately. Product vapors may cause chemical pneumonia (a serious and lethal inflammation in lungs) so that vapors should not be inhaled. Unconscious patients should be laid down sidelong as in first aid posture. Heartbeats should be followed in terms of cardiac arrhythmia. Breathing should be followed. In case artificial respiration and cardiac massage is required, it should be ensured that authorized health personnel respond. Get medical attention immediately.

INGESTION:

When taken in mouth, spit immediately and wash mouth with plenty of water. In case of swallowing **DO NOT CAUSE TO VOMIT ARTIFICIALLY; patient should be taken to a doctor immediately.** In case of vomiting, attention should be paid that the trachea is left open and the substance does not go

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down the trachea. In such case, get medical attention immediately.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

INHALATION:

Exposure to vapor, steam, or fume may lead to dizziness, headache, blurred vision or irritation in eyes, nose or throat.

SKIN CONTACT:

Skin irritation signs and symptoms may include a burning sensation, redness and swelling.

INGESTION:

Swallowing may lead to damage in lungs.

EYE CONTACT:

May irritate eyes in case of contact.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

There is no specific antidote or therapeutic practices. It should be treated according to the symptoms.

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Dry chemical powder, carbon dioxide, sand and dolomite type fire extinguishers can be used for small fires. In case of large fires, inform fire station immediately. Foam should be used to extinguish such fires. Take wind on your back during intervention not to inhale the combustion and evaporation gases that are harmful to human health.

The entrance and exit lines should be kept open in order to ensure the transportation of the vehicles which may come for the fire, and for withdrawal in case of danger. Unauthorized personnel should be kept away from the site.

5.2 Special Hazards Arising From The Substance or Mixture

The product is classified as flammable. It evaporates and has flashing risks. If vapor is ignited by sparks or a hot surface, there is risk of flashing. Its vapor is heavier than air and spreads on the ground and may ignite from afar. In the presence of static electricity, ignition of flammable air-vapor mixtures can occur.

It may ignite on water again since it spreads on water surface.

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5.3 Advice for Firefighters

Personal Protective Equipment Required

Proper thermal protection equipment, fire protection suit, protective mask, and Self-Contained-Breathing Apparatus should be used. Surrounding tanks and personnel should be protected via water spray.

The respiratory equipment masks should be used by trained personnel. Indoor operations should be performed by team work.

Unsuitable Extinguishers and Response Methods

Do not use direct water jets on burning product since it will spread the fire.

Hazardous Products of Fire

Carbon oxides, sulfur oxides, and nitrogen oxides are formed via combustion. In case of incomplete combustion, carbon monoxide exposure will increase. Product vapors arising due to heat may burn at high temperatures.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipments specified in Chapter 8.

6.2 Environmental Precautions

Use appropriate containment to avoid environmental contamination. Use sand, earth or other suitable barriers to prevent the spread or entry into the drainage system, ditches or rivers .

Try to disperse product vapor. For example, try to redirect the vapor flow to a safe location by using mist sprays.

When the product mixes with water, spreading of product on water surface should be prevented via a suitable barrier and product should be collected from water surface by appropriate absorbents. The spilled product should be collected by authorized personnel. Contaminated soil, sawdust and other substances should be disposed of in compliance with legal regulations. In case of spilling into sea, approved diluting agents may be used upon permission from local official authorities.

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In case of being unable to control a significant amount of leakage, the local authorities should be informed about the situation. If a possibility of exposure of people or the environment emerges, relevant authorities should be notified immediately. In case of spillage/leakage, call the relevant authorities and Environmental and Urban Planning Line (Hotline 181).

6.3 Methods and Material for Containment and Cleaning Up

Gasoline evaporates easily and has a very low flash point. Therefore spillage of product possesses a very high risk of fire and the ignition sources should be removed from the surrounding area immediately. Spilled product should be soaked up via soil, sand, sawdust or any suitable absorbent substances as soon as possible.

Be careful that the spilled product may cause a slippery ground. Remove all non-essential personnel from the spill area. Electrical devices should not be used. Take precautionary measures against static electric and ensure electrical continuity by grounding all electrical equipment.

In case of large and widespread spills, respond with specialist personnel and cover spilled liquid by foam in order to eliminate the risk of flashing and prevent the spilled liquid to contact with air. In case of indoors spillage, the environment should be ventilated, and it should be checked whether there is sufficient air inside for safe entry. Oxygen mask and protective clothes should be used if required. Since the product vapor is heavier than air, it may reach to closed channels such as drainage channels and basements, so that presence of flashing sources may cause risk of explosion and flashing.

6.4 Reference to Other Sections

See Sections 8, 11 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Pay attention to personal hygiene and prevent skin contact with the product. In case of contact, VITON® or NITRILE rubber gloves should be used. The contaminated clothes should be disposed of unpacked. During filling and using the product, the wind should be taken from back. Contact with eyes and skin should be avoided. Safety goggles or face mask should be used for protection against splashes.

No food or drink should be consumed and smoking should be prohibited in areas where product is carried, stored or used.

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It should be ensured that the working area is well ventilated. Static electricity may accumulate while handling, though precautionary measures against electrostatic discharge must be taken. No filling operation should be performed without grounding. The materials and equipments used should be safe (non-sparking).

7.2 Conditions for Safe Storage, Including Any Incompatibilities

It is stable under normal usage and storage conditions. Under normal storage temperatures, a little amount of hydrocarbon vapor may form. These vapors may pose a risk of explosion/flash even at temperatures below the normal flashing point of the product. The product may ignite very easily. When the product is in a hot ambient or in contact with a hot surface, or in case of leakage, there is a risk of ignition, flash or explosion. Therefore distribution and storage operations should be performed far from heat and ignition sources, and static electricity should be discharged. The equipment to be used should be grounded. The necessary measures should be taken to ensure electrical continuity when transferring between containers. Grounding should be done with the transfer cable. Area should be well ventilated.

Clothes, paper, and all kinds of absorbent materials contaminated by the product should be disposed of safely.

Storage containers and handling tools should comply with this product. The product can be stored in tanks made of carbon steel. The containers should be marked properly and kept closed when they are not in use. The containers and whereabouts should have warning labels. Appropriate safety precautions against fire should be taken for large storage tanks. No cutting, drilling or welding operations should be performed on storage tanks before necessary safety precautions are taken against combustible fuels.

Take all precautionary measures for accidental mixing of product into soil or water.

In case of emergency during entrance operations into tanks, sufficient number of personnel with safety equipment should be present, and the situation should be responded promptly. If the hydrocarbon vapor concentration is higher than 1% and the amount of the oxygen is below 20% one should not enter the tank without an oxygen mask.

Packaging: Suitable material should be used against static electricity. Containers and container coatings should be made of materials which consist of a low carbon rate and stainless steel. Epoxy and zinc silicate dyes should be used for storage painting.

Unsuitable materials: Should be avoided from long-term contact with natural, butyl and nitrate rubbers.

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7.3 Specific End Use(s)

Please refer to Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters

Component Name	Duration	Limit	Unit	Regulations
Unleaded Gasoline, 95 Octane	TWA (8 hour)	300	ppm	ACGIH
	STEL (15 min)	500	ppm	ACGIH
<i>Benzene</i>	TWA (8 hour)	1	ppm	OSHA
	STEL (15 min)	5	ppm	OSHA
<i>MTBE</i>	TWA (8 hour)	50	ppm	OEL-SWEDEN
	STEL (15 min)	75	ppm	OEL-SWEDEN
<i>Ethanol</i>	TWA (8 hour)	1000	ppm	OSHA
	STEL (15 min)	1000	ppm	ACGIH

Vapor, steam or fume should be controlled in the lowest level as possible.

8.2. Exposure Controls:

8.2.1. General Information

Keep the concentration of product in the environment under the permissible limits by providing general and local exhaust ventilation.

8.2.2. Personal Protective Equipment



Protection of Respiratory System:

Approved suitable protective gas mask should be used if work conducted under product vapor. The producer instructions should be followed while using gas masks. The filter of gas mask used should conform to the maximum contamination concentration which may be generated.

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Protection of Skin and Hands

In case of contact with skin, the protective clothes (excluding PVC and natural rubber) including impermeable gloves (VITON or NITRILE rubber gloves) should be used. Anti-static protective clothing and shoes should be used for effective protection against static electricity. In case of ignition risk, self-fire-resistant clothing and gloves should be worn. Regular control and maintenance of protective gloves, shoes, and clothes should be performed.

Protection of Eye and Face

Protective equipment (safety goggles or face mask) should be used against chemical splashes.

Considering the operation to be performed, equipments for exposure controls should be chosen according to the standards mentioned below.

Clothing: TS EN 1149-3 (For antistatic property)

Raincoat: TS EN 1149-3

Shoes: TS EN ISO 20345, TS EN 13287

(Rubber) Boots: EN ISO 20345 200 JUL S5

Gloves: TS 5560 EN 166, TS EN 170, TS EN 374-3, 1149-5

Safety goggles: TS 5560 EN 166, TS EN 170

Protective gas mask: EN 149:2001+A1:2009 (Another standards may apply while choosing appropriate masks considering the operation to be performed)

Closed-circuit breathing apparatus: EN 144-1,2,3 EN 145 (To be used for entering open or closed environments which contain harmful product vapours and/or do not contain sufficient amount of oxygen)

Moreover, all the equipments for exposure controls should be chosen according to the suitability to CE Standard, if applicable.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

PROPERTY	TEST METHOD	UNIT	VALUE
Appearance	Visual		Liquid at room temperature, Clear and Bright
Odor			Hydrocarbon Smell
Odor threshold			No data
pH			No data
Melting Point - Freezing Point			No data
Initial Boiling Point - Boiling Range	TS 1232 EN ISO 3405	°C	25 -210
Evaporation rate			No data
Flammability			No data
Upper/lower flammability or explosive limits		%	1 - 8 (H/H)
Vapor Pressure (RVP)	TS EN 13016-1	kPa	45 - 60 summer 60 - 90 winter
Vapor Density (Air = 1)	ASTM D 2463 / 2421		3 - 4
Density @ 15°C	TS 1013 EN ISO 3675 TS EN ISO 12185	kg/m ³	720 - 775
Auto Ignition Temperature		°C	Over 250
Flash Point		°C	<u>≤ - 43</u>
Solubility			No data
Partition coefficient: n-octanol/water			No data
Decomposition temperature			No data
Fluidity (Viscosity)	TS 1451 EN ISO 3104	cSt (40°C)	0,5-0,75

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9.2 Other Information

Not available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reaction is expected when handled and stored according to provisions. It oxidizes in the air.

10.2 Chemical Stability

It is stable under normal usage and storage conditions, and hazardous reactions do not occur.

10.3 Possibility of Hazardous Reactions

Vapors of the product may form explosive mixtures with air.

10.4 Conditions to Avoid

Product should be kept away from extreme temperature, ignition sources, and systems that may generate hydrocarbon vapor. Product containing containers should not be pressurized, welded, soldered, cut, punctured, bored or sandpapered.

10.5 Incompatible Materials

Contact with oxidizers (strong acids, peroxides, chlorine etc.) should be avoided.

10.6 Hazardous Degradation / Decomposition Products

In the event of combustion, carbon oxides (CO, CO₂), water vapor (H₂O), sulfur dioxide (SO₂), and unidentified organic and inorganic components form.

11. TOXICOLOGICAL INFORMATION

Exposure usually occurs via inhalation, skin and eye contact but there are situations in which absorption from skin or accidental swallowing encountered.

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Acute Toxicity:

Acute toxicity - Oral : LD50 > 2.000 mg/kg (rat)
Acute toxicity - Dermal : LD50 > 2.000 mg/kg (rabbit)
Acute toxicity - Inhalation : LC50 > 5,0 mg/l /4 hours (rat)
Acute toxicity - Inhalation : LD ≥ 120.000 mg/m³ (5 minutes) (rat – lethal)

Skin corrosion / irritation: Product irritates the skin. Long-term and frequent contact may irritate skin severely, cause inflammation (dermatitis) and irremediable diseases such as cancer.

Serious eye damage / irritation: In case of accidental contact with eyes, it may cause burn, redness, irritation or transient blindness.

Respiratory irritation: Inhalation of vapor may cause a temporary burning in nasal tissue, throat and lungs and also an irritation in respiratory track. Exposure to vapor may affect central nervous system, thus may cause headache, dizziness, blurred vision, nausea, and irritation in eyes, upper respiratory tract, mouth and digestion tract.

Respiratory or skin sensitization: Not classified as a sensitizer.

Germ cell mutagenicity: Product contains benzene which may be classified as germ cell mutagenic but tests on product did not show any positive results in such case.

Carcinogenicity: Product contains benzene which is classified as a carcinogen for human. Exposure to benzene for extended times may cause anemia, leukemia and other diseases related with blood.

Reproductive and developmental toxicity: May be toxic for reproduction.

Specific target organ toxicity – single exposure: Exposure to vapor may affect central nervous system, thus may cause headache, dizziness, blurred vision, nausea and drowsiness. Exposure to vapor for extended times may cause loss of consciousness and even death.

Specific target organ toxicity – repeated exposure: Long-term and frequent exposure may cause damage on blood and organs related to blood production. It may cause anemia, leukemia and other diseases related with blood.

Aspiration hazard: As a result of swallowing and/or vomiting, product may be aspirated into respiratory track and lungs, which may result in death.

Additional Information: When swallowed, it may irritate mouth, throat, and digestion tract, and it may cause nausea and intestinal disorders.

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Product Name: Unleaded Gasoline 95 Octane
First Publish Date: November 2004
Revision Date: 9/13/2018
Revision No: 06

Form No: OPET.GBF.02

12. ECOLOGICAL INFORMATION

12.1 Toxicity

It causes toxic effect on aquatic organisms and it may cause long-term adverse effects in the aquatic environment.

Since it is lighter than water, it forms a film layer on water surface, and prevents aquatic creatures to receive oxygen from air and have them physically damaged.

Acute Toxicity: The product is expected to be toxic on aquatic environment.

Fish; LL/EL/IL50 11 – 16 mg/L (96 hours) (CONCAWE – 1995a, c)

Invertebrate; LL/EL/IL50 7,6 – 12 mg/L (48 hours) (CONCAWE – 1995d, e)

Algae; LL/EL/IL50 1,4 – 4,2 mg/L (72 hours) (CONCAWE – 1995f, g)

Chronic Toxicity:

Fish, crustaceans, algae and aquatic plants; NOEC/NOEL > 0.01 - <= 0.1 mg/L (expected according to the model data)

12.2 Persistence and Degradability

It is degradable in nature and easily decomposes in soil. It maintains its properties under anaerobic conditions. It oxidizes rapidly in the air.

12.3 Bioaccumulative potential

Contains constituents with the potential to bioaccumulate.

12.4 Mobility in Soil

If the product spilled, it will be absorbed by soil and it may mix with underground waters.

12.5 Result of PBT and vPvB Assessments

Not classified as PBT or vPvB.

12.6 Other adverse Effects

Since it is lighter than water, it forms a film layer on water surface, and prevents aquatic creatures to receive oxygen from air and have them physically damaged.

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13. DISPOSAL CONSIDERATIONS

Do not throw product waste near ponds, channels, and wells, or in soil. There may be product left in empty packages. The contaminated empty containers should be properly collected by licensed persons and disposed of by incineration or any other appropriate methods. "Regulation on Control of Waste" by Ministry of Environment and Urbanism should be followed up for disposal.

14. TRANSPORT INFORMATION

ADR/RID

Class : 3
UN No. : UN 1203
Packing Group : II
Shipment Name : UN 1203 GASOLINE
Hazard Definition : 33
Environmental Damage : Yes

ADN

Class : 3
UN No. : UN 1203
Packing Group : II
Shipment Name : UN 1203 GASOLINE
Hazard Definition : 33
Environmental Damage : Yes

IMDG

Class : 3.1
UN No. : UN 1203
Packing Group : II
Sea pollutant : Yes
Shipment Name : UN 1203 GASOLINE (flash point ≤ 40)

IATA/ICAO

Class : 3
UN No. : UN 1203
Packing Group : II
Shipment Name : UN 1203 GASOLINE

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data.

15. REGULATORY INFORMATION

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16. OTHER INFORMATION

The information on health, safety, and environment in this document, are acquired via reviewing the resources apart from OPET and deemed valid as of this date. No guarantee is given with respect to the perfection and precision about the information involved in this document.

The health, safety, and environmental measures/recommendations included in this document may not be sufficient for all individuals and/or cases.

The user party is responsible for assessing and safely utilizing the material, and following the applicable law and rules.

The expressions used in this document shall not be interpreted as permission, recommendation, or approval in any manner for the application and work practiced without a valid license.

"OPET Petrolcülük A.Ş." cannot be held liable for any damages and/or injuries that may arise due to misusing of the material, failure to comply with measures/recommendations or hazards naturally present in the material.

Safety Data Sheet Prepared by;

Product Quality Specialist – Melda ERHAN, melda.erhan@opet.com.tr

MSDS Certificate Date: May 9th 2018

Valid through: May 9th 2021

Certificate No: GBF-A-0-2789

Environmental Coordinator – Burak YONTAR, burak.yontar@opet.com.tr

MSDS Certificate Date: May 9th 2018

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Revision No: 06

Form No: OPET.GBF.02

Valid through: May 9th 2021

Certificate No: GBF-A-0-2793

OPET Petrolcülük A.Ş. – Head Office
Barbaros Mah. Gelincik Sokak No.4/A 34746, ATAŞEHİR / İSTANBUL

Hazard and Precautionary Statements:

Hazard Statements

H224: Extremely flammable liquid and vapour.

H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H340: May cause genetic defects.

H350: May cause cancer.

H361: Suspected of damaging fertility or the unborn child.

H372: Causes damage to organs through prolonged or repeated exposure.

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

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

H412: Harmful 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.

P241: Use explosion-proof electrical/ventilating/light/.../equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe dust/fumes/gas/mist/vapours/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.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P314: Get medical advice/attention if you feel unwell.

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

P331: Do NOT induce vomiting.

P332+P313: If skin irritation occurs: Get medical advice/attention.

Storage

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

Disposal

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

Abbreviations and Synonyms

ACGIH: American Conference of Industrial Hygienists.

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)

CAS: Chemical Abstracts Service

GHS: Globally Harmonized System

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IBC: Intermediate Bulk Container

IMDG: International Maritime Dangerous Goods

MARPOL 73/78: The International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 (MARPOL 73/78, MARPOL is short for marine pollution and 73/78 short for the years 1973 and 1978)

RID: The Regulation concerning the International Carriage of Dangerous Goods by Rail

TWA: time-weighted average (regarding permissible exposure limits of a chemical)

STEL: short-term exposure limits

OSHA: Occupational Safety and Health Administration.

OEL: Occupational Exposure Limit

vPvB: very Persistent and very Bioaccumulative

PBT: Persistent, Bioaccumulative and Toxic

Information on Revisions: Revised parts are indicated with underlining.

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