



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

Form No: OPET.GBF.09

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

- 1.1. **Product Name** : AUS 32 (AdBlue)  
**Product Code** : OPET-820  
**CAS No.** : 57-13-6  
**EC No.** : 200-315-5  
**Other Names of the Product** : OPET AdBlue®, DEF (Diesel Exhaust Fluid), Urea solution, NO<sub>x</sub> Reducing Solution
- 1.2. AUS 32 is an aqueous urea solution which is used in diesel vehicles equipped with Selective Catalytic Reduction (SCR) system in order to reduce NO<sub>x</sub> emissions. The product is an additive that is used within diesel exhaust systems via injection. It should not be added to fuel tank of the vehicle and should not be mixed with fuel.
- 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](mailto:info@opet.com.tr)  
**MSDS Authorized Personnel:** [melda.erhan@opet.com.tr](mailto:melda.erhan@opet.com.tr)  
[burak.yontar@opet.com.tr](mailto: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

Not classified as harmful.

#### 2.2 Label Elements

##### Hazard Pictograms:

Not classified as harmful.

REVISED BY PRODUCT QUALITY SPECIALIST	CHECKED BY CORPORATE QHSE MANAGER	APPROVED BY PRODUCT QUALITY AND LABORATORIES MANAGER
--	--------------------------------------	--

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

**Signal Words :** N/A

**CLP Hazard Statements:**

Not classified as harmful.

**CLP Precautionary Statements:**

Not classified.

**2.3 Other Hazards**

Not classified.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**3.1 Substances**

Not classified.

**3.2 Mixtures**

Bileşenler	EC Number	CAS Number	Quantity (%wt)	Risk Components
Urea	200-315-5	57-13-6	31,8 - 33,2	Not classified as harmful.
Water (Deionized)	231-791-2	7732-18-5	66,8 – 68,2	Not classified as harmful.

### 4. FIRST AID MEASURES

<b>REVISED BY PRODUCT QUALITY SPECIALIST</b>	<b>CHECKED BY CORPORATE QHSE MANAGER</b>	<b>APPROVED BY PRODUCT QUALITY AND LABORATORIES MANAGER</b>
--	--	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

### 4.1 Description of First Aid Measures

Acute hazards are not expected during normal and/or suggested handling and using. In case of continuance of any discomfort or sickness immediately seek medical attention. Treatment should be performed according to symptoms.

#### EYE CONTACT:

In case of eye contact, first check the presence of contactes and remove. Wash eyes with copious quantities of water (for approximately 15 minutes). Note that your eyes should be open during washing. In case of blurred vision, swelling, burning or redness in eyes, get medical attention immediately. Eyes should not be rubbed.

#### SKIN CONTACT:

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 redness, swelling or pain in the skin, get medical attention immediately.

Contaminated clothing and shoes should be cleaned thoroughly in order to use again.

#### INHALATION:

The exposed person should be removed to fresh air immediately. Mouth and nose should be rinsed well with water. In case of continuance of any discomfort or sickness immediately seek medical attention.

#### INGESTION:

When taken in mouth, spit immediately and wash mouth with plenty of water. In case of swallowing copious amounts **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 down the trachea. In this case get medical attention immediately.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Not classified.

<b>REVISED BY</b> PRODUCT QUALITY SPECIALIST	<b>CHECKED BY</b> CORPORATE QHSE MANAGER	<b>APPROVED BY</b> PRODUCT QUALITY AND LABORATORIES MANAGER
---	---	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

### 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 and carbon dioxide 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 coming for 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 not classified as flammable. In case of fire in the area, it should be treated with a suitable extinguishing agent for surrounding environment and products.

### 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

Surrounding materials should be taken into consideration during extinguishing. Do not use direct water jets to avoid spreading.

<b>REVISED BY</b> PRODUCT QUALITY SPECIALIST	<b>CHECKED BY</b> CORPORATE QHSE MANAGER	<b>APPROVED BY</b> PRODUCT QUALITY AND LABORATORIES MANAGER
---	---	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

### Hazardous Products of Fire

During combustion first emission is ammonia. Carbon oxides and nitrogen oxides are formed at elevated temperatures.

During fire, storage tank will heat up and this may lead to explosion.

## 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

Prevent the spread or entry into the drainage system, ditches or rivers. In case of spilling on waterways, large and widespread spills and/or being unable to control a significant amount of leakage, the local authorities should be informed about the situation 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

Product is not flammable and does not possess a risk of fire in normal conditions. However, smoking should be prohibited at surrounding area and all other ignition sources should be removed.

Avoid the product contact with eyes and skin. Do not inhale vapors. Maintain appropriate ventilation. Do not contact with spilled product. Spilled area should be secured and product should be collected with sand, earth, sawdust or other suitable barriers as soon as possible. Provided there is no danger, leaks should be stopped.

Be careful that the spilled product may cause a slippery ground. Remove all non-essential personnel from the spill area. Contaminated soil, sawdust and other substances should be disposed of in compliance with legal regulations under the supervision of authorized personnel.

<b>REVISED BY</b> <b>PRODUCT QUALITY SPECIALIST</b>	<b>CHECKED BY</b> <b>CORPORATE QHSE MANAGER</b>	<b>APPROVED BY</b> <b>PRODUCT QUALITY AND</b> <b>LABORATORIES MANAGER</b>
--	--	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

### 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 not to spill the product. No food or drink should be consumed and smoking should be prohibited in areas where product is carried, stored or used. It should be ensured that the working area is well ventilated.

Pay attention to personal hygiene and prevent skin and eye contact with the product. In case of contact, VITON® or NITRILE rubber gloves should be used. Safety goggles or face mask should be used for protection against splashes.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

Product do not require special storage procedures and it is stable under normal usage and storage conditions.

It should be ensured that the working area is well ventilated. The containers should be marked properly and kept closed when they are not in use. The containers and whereabouts should have warning labels. Protect from direct sun light.

Storage containers and handling tools should comply with this product. Suggested containers are, High Density Polyethylene (HDPE), Low Density Polyethylene (LDPE), Cr-Ni-stainless steel or Cr-Ni-Mo stainless steel containers (According to DIN EN 10088-1, 10088-2 and 10088-3). Iron and metal containers which contain copper and/or zinc alloys are **not suitable**.

It is strongly advised to store the product between 20-25°C to prevent hydrolysis. The product starts to crystallize at -11°C. To avoid crystallization under -10°C, storage tanks, piping and instrumentation should be isolated with proper material and/or heated to a safe temperature. It is very important that product temperature should not be elevated above 30°C.

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

<b>REVISED BY</b> <b>PRODUCT QUALITY SPECIALIST</b>	<b>CHECKED BY</b> <b>CORPORATE QHSE MANAGER</b>	<b>APPROVED BY</b> <b>PRODUCT QUALITY AND</b> <b>LABORATORIES MANAGER</b>
--	--	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.

### 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

#### 7.3 Specific End Use(s)

Please refer to Section 1.2.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control Parameters

No exposure limit is defined for the components of the product.

#### 8.1 Exposure Controls

##### 8.2.1 General Information

Keep the concentration of product in the environment under the permissible limits and/or the lowest possible levels by providing general and local exhaust ventilation.

No food or drink should be consumed and smoking should be prohibited in the working area. Wash hands with soap and water after contact with product. Take off contaminated clothes and keep them separated. Wash contaminated clothes before using again.

##### 8.2.2 Personal Protective Equipment



#### Protection of Respiratory System

Proper ventilation should be ensured. Approved suitable protective gas mask should be used to prevent inhaling product vapor, if work conducted under insufficient ventilation. 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.

<b>REVISED BY</b> PRODUCT QUALITY SPECIALIST	<b>CHECKED BY</b> CORPORATE QHSE MANAGER	<b>APPROVED BY</b> PRODUCT QUALITY AND LABORATORIES MANAGER
---	---	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

### Protection of Skin and Hands

In case of splash and/or contact with skin, impermeable gloves (VITAN and NITRILE rubber gloves) should be used. Regular control and maintenance of protective gloves 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>REVISED BY</b> <b>PRODUCT QUALITY SPECIALIST</b>	<b>CHECKED BY</b> <b>CORPORATE QHSE MANAGER</b>	<b>APPROVED BY</b> <b>PRODUCT QUALITY AND</b> <b>LABORATORIES MANAGER</b>
--	--	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.





## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

### 9.1 Information on Basic Physical and Chemical Properties

ÖZELLİK	TEST METODU	BİRİM	DEĞER
Appearance	Visual Inspection		Colorless liquid with no crystal structures, clean and clear
Odor			No odor or a faint ammonia odor
Odor Threshold			No data
Solubility			Soluble in water.
Density (at 20°C)	ASTM D 4052	kg/l	1,087-1,093
pH			8 – 10
Vapor Pressure (at 40°C)		mm Hg	48
Vapor Density			No data
Autoignition Temperature			No data
Melting Point - Freezing Point		°C	-11
Vaporization Speed			No data
Initial boiling point and boiling range		°C	100-103
Flash Point			No data
Flammability			Not flammable
Viscosity (at 25°C)		mPas	1,4
Partition coefficient: n-octanol/water			No data
Decomposition temperature			Hydrolysis may occur above 35°C
Oxidation tendency			Not oxidizing
Volatile Organic Compounds			Negligible

<b>REVISED BY</b> PRODUCT QUALITY SPECIALIST	<b>CHECKED BY</b> CORPORATE QHSE MANAGER	<b>APPROVED BY</b> PRODUCT QUALITY AND LABORATORIES MANAGER
---	---	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

*Upper/lower flammability or  
explosive limits*

*Not explosive*

### 9.2 Other Information

Not available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Dangerous chemical reactions do not occur.

### 10.2 Chemical Stability

It is stable when handled and stored according to provisions

### 10.3 Possibility of Hazardous Reactions

No data.

### 10.4 Conditions to Avoid

Product should be kept away from extreme temperature and direct sunlight. It should be protected from freezing and temperatures below crystallization point. It should be kept away from temperatures higher than 35°C in order to prevent hydrolysis. Hydrolysis of the product leads to formation of ammonia and carbon dioxide.

Product should be kept away from ignition sources. Product containers should not be subjected to pressure. Product containing containers should not be pressurized, welded, soldered, cut, punctured, bored or sandpapered.

### 10.5 Incompatible Materials

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

**REVISED BY  
PRODUCT QUALITY SPECIALIST**

**CHECKED BY  
CORPORATE QHSE MANAGER**

**APPROVED BY  
PRODUCT QUALITY AND  
LABORATORIES MANAGER**

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

### 10.6 Hazardous Decomposition Products

In the event of combustion, carbon oxides (CO, CO<sub>2</sub>), water vapor (H<sub>2</sub>O), nitrogen oxides (NO<sub>x</sub>) form.

## 11. TOXICOLOGICAL INFORMATION

Exposure usually occurs via inhalation, skin and eye contact but there are situations in which accidental swallowing encountered. Target organs are, skin, eyes, respiratory system, lungs and gastro-intestinal track.

**Acute Toxicity:** Acute toxicity of urea is given below.

Acute toxicity - Oral : LD<sub>50</sub> ≥ 14.300 mg/kg (rat)  
Acute toxicity - Oral : LD<sub>50</sub> ≥ 11.500 mg/kg (mouse)  
Acute toxicity - Oral : LDLO ≥ 10.000 mg/kg (rabbit)

**Skin corrosion / irritation:** Under normal usage skin irritation is not expected. Repeated exposure may lead to dryness and cracks on the skin.

**Serious eye damage / irritation:** Under normal usage eye irritation is not expected. Vapors which may occur via high temperatures may irritate eyes.

**Respiratory Corrosion / irritation:** Under normal usage irritation is not expected. Excessive inhaling of vapors may irritate throat and respiratory system and may lead to cough.

**Respiratory or skin sensitization:** No data.

**Germ cell mutagenicity:** No data.

**Carcinogenicity:** No data.

**Reproductive and developmental toxicity:** No data.

**Specific target organ toxicity – single exposure:** No data.

REVISED BY PRODUCT QUALITY SPECIALIST	CHECKED BY CORPORATE QHSE MANAGER	APPROVED BY PRODUCT QUALITY AND LABORATORIES MANAGER
--	--------------------------------------	--

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

**Specific target organ toxicity – repeated exposure:** No data.

**Aspiration hazard:** No data.

**Additional Information:** When swallowed product may cause discomfort. The main symptoms are nausea and/or gastro-intestinal track complaints.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

The product is not expected to cause danger for environment.

**Acute Toxicity:** The product is not expected to be toxic on aquatic environment.

Acute toxicity values of urea is given below.

Fish; LC<sub>50</sub>, 17.500 mg/L (96 hours) (Poecilia reticulata)

Daphnia; EC<sub>50</sub>, 3.910 mg/L (48 hours)

**Chronic Toxicity:** The product is not expected to cause long term adverse effects on environment.

### 12.2 Persistence and Degradability

Product is expected to degrade biologically.

### 12.3 Bioaccumulative potential

Product is not expected to bioaccumulate.

### 12.4 Mobility in Soil

The product is highly soluble in water. In case of spillage, it will be absorbed via soil and it may mix with underground waters.

### 12.5 Result of PBT and vPvB Assessments

Not classified as PBT or vPvB.

<b>REVISED BY</b> PRODUCT QUALITY SPECIALIST	<b>CHECKED BY</b> CORPORATE QHSE MANAGER	<b>APPROVED BY</b> PRODUCT QUALITY AND LABORATORIES MANAGER
---	---	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

### 12.6 Other adverse Effects

No data.

### 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

The product is not covered by international regulations on the transport of dangerous goods (IMDG/ICAO, IATA, ADR/RID, ADN).

A warning sign for transport is not required.

### 15. REGULATORY INFORMATION

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.

### 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.

<b>REVISED BY</b> <b>PRODUCT QUALITY SPECIALIST</b>	<b>CHECKED BY</b> <b>CORPORATE QHSE MANAGER</b>	<b>APPROVED BY</b> <b>PRODUCT QUALITY AND</b> <b>LABORATORIES MANAGER</b>
--	--	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.



## 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:** OPET AdBlue®  
**First Publish Date:** June 2016  
**Revision Date:** 11/8/2019  
**Revision No:** 03

**Form No:** OPET.GBF.09

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](mailto:melda.erhan@opet.com.tr)

**MSDS Certificate Date:** May 9<sup>th</sup> 2018

**Valid through:** May 9<sup>th</sup> 2021

**Certificate No:** GBF-A-0-2789

**Environmental Coordinator – Burak YONTAR,** [burak.yontar@opet.com.tr](mailto:burak.yontar@opet.com.tr)

**MSDS Certificate Date:** May 9<sup>th</sup> 2018

**Valid through:** May 9<sup>th</sup> 2021

**Certificate No:** GBF-A-0-2793

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

**Information on Revisions:** Revised parts are indicated with underlining.

<b>REVISED BY</b> <b>PRODUCT QUALITY SPECIALIST</b>	<b>CHECKED BY</b> <b>CORPORATE QHSE MANAGER</b>	<b>APPROVED BY</b> <b>PRODUCT QUALITY AND</b> <b>LABORATORIES MANAGER</b>
--	--	---

The Document, is a controlled document as long as it is on QDMS. When printed, it is no longer a controlled document.