



SAFETY DATA SHEET

This Safety Data Sheet has been prepared in compliance with Annex II of "The Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals" published in the Official Gazette (RG) No. 30105 on 23.06.2017.

Product Name: OPET AdBlue®
First Publish Date: June 2016
Revision Date: 4/7/2025
Revision No: 05

Form No: OPET.GBF.09

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

1.1. Identification of the Substance or Preparation

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_x Reducing Solution

1.2. Use of the Substance/Preparation

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_x 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/Undertaking Identification

Company Name : OPET PETROLCÜLÜK 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: burak.yontar@opet.com.tr

1.4. Emergency Telephone

National Poison Information Center: 114
Emergency Telephone : +90216 522 9000 (8:00-17:00, GMT+3, Monday-Friday)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

This product is not classified as hazardous according to GHS.

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2.2 Label Elements

Hazard Pictograms: This product does not require classification and labelling according to GHS.

Signal Words: N/A

CLP Hazard Statements: This product does not require classification and labelling according to GHS.

CLP Precautionary Statements: This product does not require classification and labelling according to GHS.

2.3 Other Hazards

This product is not classified as hazardous according to GHS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

This product is not classified as hazardous according to GHS.

3.2 Mixtures

Components	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.

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4. FIRST AID MEASURES

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 contacts 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.

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

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Not classified.

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 teamwork.

Unsuitable Extinguishers and Response Methods

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

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 equipment 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 Ministry of Environment, Urbanization and Climate Change 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 vapours. 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.

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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 to make sure that product temperature does not exceed 35°C. The effect of ambient temperature on shelf life is provided at the table below.

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Table: The effect of ambient temperature on shelf life

Ambient Temperature (°C)	Shelf Life (Month)
≤10	36
≤25	18
≤30	12
≤35	6
>35	Significant reduction in shelf life

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

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

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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.

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, equipment for exposure controls should be chosen according to the standards mentioned below.

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)

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

PROPERTY	TEST METHOD	UNIT	VALUE
<i>Appearance</i>	<i>Visual Inspection</i>		<i>Colorless liquid with no crystal structures, clean and clear</i>
<i>Odor</i>			<i>No odor or a faint ammonia odor</i>
<i>Odor Threshold</i>			<i>No data</i>
<i>Solubility</i>			<i>Soluble in water.</i>
<i>pH</i>			<i>8 – 10</i>
<i>Melting Point - Freezing Point</i>		°C	<i>-11</i>
<i>Initial boiling point and boiling range</i>		°C	<i>100-103</i>
<i>Vaporization Speed</i>			<i>No data</i>
<i>Flammability</i>			<i>Not flammable</i>
<i>Upper/lower flammability or explosive limits</i>			<i>Not explosive</i>
<i>Vapor Pressure (at 40°C)</i>		mm Hg	<i>48</i>
<i>Vapor Density</i>			<i>No data</i>
<i>Density (at 20°C)</i>	<i>ASTM D 4052</i>	kg/l	<i>1,087-1,093</i>
<i>Autoignition Temperature</i>			<i>No data</i>
<i>Flash Point</i>			<i>No data</i>

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Partition coefficient: n-octanol/water			No data
Decomposition temperature			Hydrolysis may occur above 35°C
Viscosity (at 25°C)		mPas	1,4
Oxidation tendency			Not oxidizing
Volatile Organic Compounds			Negligible

9.2 Other Information

Not available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Dangerous chemical reactions do not occur. Oxidizes on contact with air

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.

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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.

10.6 Hazardous Decomposition Products

In the event of combustion, carbon oxides (CO, CO₂), water vapor (H₂O), nitrogen oxides (NO_x) 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 : LD₅₀ ≥ 14.300 mg/kg (rat)
Acute toxicity - Oral : LD₅₀ ≥ 11.500 mg/kg (mouse)

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.

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Carcinogenicity: No data.

Reproductive and developmental toxicity: No data.

Specific target organ toxicity – single exposure: No data.

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; LC₅₀, 17.500 mg/L (96 hours) (Poecilia reticulata)

Daphnia; EC₅₀, 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.

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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.

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 recycled, disposed of by incineration or any other appropriate methods. "Regulation on Control of Waste" by Republic of Türkiye Ministry of Environment Urbanization and Climate Change should be followed up for disposal and recycling.

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.

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

No data.

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15. REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

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15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this substance/preparation.

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;

Burak Yontar

Certificate No: KDU-A-0-0174

Certificate Validity Period: 28.09.2022 - 28.09.2027

Contact: burak.yontar@opet.com.tr +90 216 522 90 00

OPET Petrolcülük A.Ş.- Head Office

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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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