

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE PRODUCT/COMPANY UNDERTAKING

### 1.1 Product Identifiers

**Product name** Adblue  
**Chemical name** AUS 32 (%32,5luk(m/m) Aqueous Urea Solution)  
**CAS No** 57-13-6  
**EC No** 200-315-5  
**Chemical formula** (NH<sub>2</sub>)<sub>2</sub>CO  
**Molar mass** 60,06 g/mol

### 1.2 Relevant Identified Uses/Uses Advised Against

**Identified Uses** used as a NO<sub>x</sub> reduction agent in SCR converter systems (It gases created by diesel-fueled heavy-duty vehicles.)  
**Uses Advised Against** This product is not recommended for any industrial, professional or consumer use other than the identified uses above.

### 1.3 Details of the Supplier of the Safety Data Sheet

**Supplier**  
**Company** GREENBLUE PETROKİMYA PLASTİK TARIMSAL ANALİZ LABORATUVARLARI İTHALAT İHRACAT SAN. VE TİC. LTD. ŞTİ.  
**Address** Süphan Mahallesi, Yenikent Sokak, No:2, Edremit, Van, TÜRKİYE  
**Telephone** +90 (432) 217 97 97  
**Fax** +90 (432)  
**Web Address** [www.greenblueturkiye.com](http://www.greenblueturkiye.com)  
**E-mail Address** [info@greenblueturkiye.com](mailto:info@greenblueturkiye.com)

### Person responsible for the safety data sheet

**Name** –  
**Telephone** +90 (432) 217 97 97  
**E-mail** [info@greenblueturkiye.com](mailto:info@greenblueturkiye.com)

### Manufacturer

**Company** GREENBLUE PETROKİMYA PLASTİK TARIMSAL ANALİZ LABORATUVARLARI İTHALAT İHRACAT SAN. VE TİC. LTD. ŞTİ.  
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**E-mail Address** [info@greenblueturkiye.com](mailto:info@greenblueturkiye.com)

### 1.4 Emergency Telephone Numbers

**Supplier Company Emergency** +90 (432) 217 97 97

AUS 32

(%32,5luk(m/m) Aqueous Urea Solution)

SDS No: 01

Version: 01

Date of Issue: 04.03.2023

Revision Date: First issue

According to Regulation No 1907/2006/EC (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 and Regulation No 1272/2008/EC (CLP)

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## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

NOTE: See Section 4.2 for symptoms and Section 11 for more detailed information on health effects.

### 2.2 Label elements

#### 2.2.1 Labeling according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

##### Hazard symbols

Not applicable

##### Hazard statements

Not applicable

##### Precautionary statements

P501 Dispose of contents/container to an authorized waste disposal facility.

### 2.3 Other hazards

This product does not meet the PBT and vPvB criteria of REACH Regulation, Annex XIII.

Hazard-determining components of labeling: -

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

INGREDIENT	IDENTIFIERS	%	CLASSIFICATION
AUS 32 (%32,5luk(m/m) Aqueous Urea Solution)	EINECS <sup>1</sup> NO: CAS <sup>2</sup> NO: 57-13-6 INDEX NO <sup>3</sup> : - REACH KAYIT NO: -	≤ 100	SEA ve 1272/2008/EC 'ye göre zararlı olarak sınıflandırılmamıştır.

NOTE: Any impurities required to be classified or that affect the classification of the product: None  
See Section 16 for the full text of the H statements declared above.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures



#### Following inhalation

Remove from contaminated area, lay patient down, keep warm and rested.  
Obtain medical attention.

In case of inhalation of decomposing products in a fire, long-term symptoms may occur.  
The exposed person may need to stay under medical supervision for 48 hours.

#### In case of skin contact

Wash with plenty of water and soap.

#### In case of eye contact

If irritation occurs, continues and/or worsens, stop using the product, consult a physician  
Wash out immediately with fresh running water.  
Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids, seek medical attention if irritation occurs.

#### If swallowed

Do not induce vomiting.  
If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  
Never give anything to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Obtain medical attention.

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## 4.2 Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	May be harmful when inhaled, may cause irritation of the respiratory tract.
<b>Skin</b>	Repeated or prolonged exposure may cause dermatitis, due to degreasing properties of the substance.
<b>Eyes</b>	Direct eye contact may lead to irritation. Burning sensation, increased lacrimation and redness may be seen.
<b>Ingestion</b>	May be harmful if swallowed. May cause irritation in the gastrointestinal tract. Nausea, vomiting and diarrhea may also be seen.

For more detailed information about the health-related effects and symptoms, see 11. Look at the section.

## 4.3 Indication of any immediate medical attention and special treatment needed

Doctor's notes: In case of inhalation of decomposing products in a fire, long-term symptoms may occur. The exposed person may need to stay under medical supervision for 48 hours. Treatment should generally be symptomatic and aimed at alleviating the effects.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Use alcohol resistant foam, water spray, water fog, dry chemical and carbon dioxide (CO <sub>2</sub> ) Sand or soil may be used in small fires.
<b>Unsuitable extinguishing media</b>	Do not use water jet since it may expand the fire.

### 5.2 Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	During combustion, ammonia is released first, and then toxic gases and fumes such as carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ) and NO <sub>x</sub> are released at high heats.
<b>Unusual fire &amp; explosion hazards</b>	Vapors can form explosive mixtures with air.

### 5.3 Advice for firefighters

<b>Special firefighting procedures</b>	Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Water used to extinguish fire should not enter drainage systems, soil, or stretches of water. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities.
<b>Special protective equipment for firefighting</b>	Use self-contained breathing apparatus, and full protective clothing in case of fire. Vapors heavier than air can condense on the ground. Firefighters' clothing in accordance with the European standard EN 469 (including helmets, protective boots and gloves) will provide a basic level of protection to protect against incidents caused by chemical substances.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

Ensure adequate ventilation (especially in confined spaces), avoid inhalation of vapors/fumes/aerosols.  
Avoid contact with eyes and skin.  
Remove all sources of ignition, prevent further leakage or spillage if safe to do so.  
Keep away from incompatible products and evacuate the area.

#### 6.1.2 For emergency responders

Evacuate personnel to safe areas.  
Ensure adequate ventilation (especially in confined spaces), avoid inhalation of vapors/fumes/aerosols.  
Avoid contact with eyes and skin.  
Slippery when spilled.

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Consider exposure limits and use personal protective equipment referred in Section 8.

## 6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.

Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body.

## 6.3 Methods and materials for containment and cleaning up

Approach the release from upwind.

Prevent from spreading by making a barrier with sand, earth or other containment material.

Remove with an inert non-combustible absorbent (like vermiculite, sand, cat litter) and dispose of absorbent as hazardous waste.

Dispose of waste material according to local, state and federal regulations.

## 6.4 Reference to other sections

See Section 7 for safe handling.

See Section 8 for exposure controls and personal protection.

See Section 13 for disposal considerations.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Handle in accordance with the general rules of occupational hygiene and safety.

Use local exhaust ventilation if there is risk of inhalation of vapors, mists or aerosols.

Avoid contact with skin and eyes, do not eat, drink or smoke in production area.

Wash thoroughly after handling the material.

Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage including any incompatibilities

Keep it in accordance with local regulations. Store in their original containers in a dry, cool and well-ventilated area that should be protected from direct sunlight, away from incompatible materials (see Section 10) and food and beverages. Avoid prolonged exposure to high temperatures.

Keep the container tightly closed and do not open the seal until it is ready for use. Use only the equipment / containers designed for this product. Opened containers must be carefully resealed in a sealed manner and held upwards to prevent leakage. Do not store in unlabeled containers. Use a suitable container to avoid contamination of the environment. Smoking, eating and drinking should be prohibited in warehouses, and the manufacturer's recommendations for storage and use should be taken into account. All substances should be kept sealed in their original packaging when not in use, and necessary measures should be taken to prevent damage to the original packaging.

The warehouse should be cleaned regularly, ventilation equipment, temperature and humidity controls should be carried out regularly.

### 7.3 Specific end use(s)

The identified uses for this product are given in Section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

There is no set limit for this product. Avoid inhaling steam, fog or fumes as much as possible. It should be controlled in such a way that steam, fog or smoke are at the lowest possible level.

### 8.2 Exposure controls

#### 8.2.1 Process conditions/Engineering measures

Handle in accordance with good industrial hygiene and safety practice, wash hands before breaks and at the end of workday.

Use closed apparatus if possible.

If release of the substance cannot be prevented, then it should be suctioned off at the point of exit.

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Ensure adequate ventilation, do not breathe vapors, consider emission limit values.

Label containers clearly, do not leave container open.

The substance must not be present at workplaces in quantities above that required for work to be progressed.

Wash thoroughly after production, wash hands before eating or drinking.

## 8.2.2 Personal protective equipment



### Respiratory protection

Not necessary under conditions of normal use.

In case of emergency, conditions like insufficient ventilation or unintentional release of the substance, wear respirators with A-P3<sup>4</sup> combined filter (Color code: Brown-white) complying with EN141<sup>5</sup>.



### Eye/Face protection

Not necessary under conditions of normal use.

In an emergency or during manufacture wear goggles or glasses with side protection complying with EN166.<sup>6</sup>



### Hand protection

Wear PVC, neoprene or nitrile rubber protective gloves complying with EN 374<sup>7</sup> during manufacture.

Application of a non-perfumed moisturizer is recommended.

Suitability and durability of a glove is dependent on usage.

In practice, the conditions in which gloves are used may differ from those standardized according to EN 374, and the usage time should be considered as at least half of the wear time in accordance with the recommendation of glove manufacturers.



### Body protection

Not necessary under conditions of normal use.

During manufacture, wear complete suit protecting against chemicals complying with EN 340<sup>8</sup>

## 8.2.3 Environmental exposure controls

Avoid release to the environment, try to prevent the material from entering drains or water courses.

Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical State (@ STP)	colourless clear liquid
Incipient crystallization	-11,5 °C
Viscosity @ 25 °C / 79 °F (ASTM D445)	1,4 cSt
Thermal conductivity (at 25 °C)	approx. 0,570 W/m·K
Specific heat (at 25 °C)	approx. 3,40 kJ/kg·K
Surface tension (at 20 °C)	min. 65 mN/m
Density (at 20 °C)	between 1 087,0 and 1 093,0 kg/m <sup>3</sup>

### 9.2 Other information

Partition coefficient n-Octanol/Water (log Po/w)	No information available
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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Not reactive under normal conditions of use.

### 10.2 Chemical stability

Product is considered stable under the recommended usage and storage conditions.

### 10.3 Possibility of hazardous reactions

May give exothermic reactions with strong oxidizing agents.

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## 10.4 Conditions to avoid

Vapors can form explosive mixtures with air. Protect from heat, flames and sparks, extremes of temperature.

## 10.5 Incompatible materials

Strong oxidizing agents.

## 10.6 Hazardous decomposition products

Upon burning toxic fumes of carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and NO<sub>x</sub> may be emitted.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity	No further relevant information available.
Skin Corrosion/Irritation	No test results available for the product.
Eye Corrosion/Irritation	No test results available for the product.
Sensitization	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	No component of this product present at levels greater than or equal to 0,1% is identified as probable, possible or confirmed human carcinogen by NTP, <sup>9</sup> IARC <sup>10</sup> or OSHA <sup>11</sup>
Fertility, Reproductive and Developmental Toxicity (Teratogenicity)	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity -Single exposure	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity -Repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

### General information

Discharge to the environment should be avoided.

Used oils may contain harmful contaminants that have accumulated during use. The concentration of such pollutants is dependent on use and can pose a risk to the environment.

### 12.1 Toxicity

No further relevant information available.

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bio accumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

Does not meet the PBT and vPvB criteria of REACH Regulation, Annex XIII.

### 12.6 Other adverse effects

When the product leaks or spills into water, it floats on the surface and may prevent the transfer of oxygen from the air to the water surface.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

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## Product

Dispose of in accordance with appropriate local regulations.  
Do not allow wash water from cleaning or process equipment to enter drains, it may be necessary to collect all wash water for treatment before disposal.  
In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first, where in doubt contact the responsible authority.  
Recycle wherever possible or consult manufacturer for recycling options.  
Dispose of to an authorized waste disposal facility.  
According to the European Waste Catalogue (EWC<sup>12</sup>), waste codes are not product specific but application specific, Waste Codes should be assigned by the user based on the application in which the product is used.  
The final classification has to be done together with the local waste disposal company/authority.  
Dispose in the same way as the product.  
Follow all rules stated on the label until the containers are cleaned and/or disposed.

## Contaminated packaging

## 14. TRANSPORT INFORMATION

### NOT A DANGEROUS GOOD ACCORDING TO TRANSPORT REGULATIONS

TRANSPORT	SYMBOL	CLASS	PACK. GROUP	CLASS. CODE	LABEL. NO	HIN NO <sup>13</sup>	EmS	MARINE POLLUTANT
ADR <sup>14</sup> /RID <sup>15</sup> (Road / Railroad)	-	-	-	-	-	-	-	-
ADNR <sup>16</sup> (River)	-	-	-	-	-	-	-	-
IMDG <sup>17</sup> (Marine)	-	-	-	-	-	-	-	NO
ICAO <sup>18</sup> /IATA <sup>19</sup> (Airways)	-	-	-	-	-	-	-	-

MARPOL 73/78 Annex II <sup>20</sup> / Carriage of chemicals in bulk (IBC<sup>21</sup> Code): Not applicable

Special provisions: -

Limited Quantity/Excepted Quantity: -/-

DGR Passenger Aircraft/DGR Cargo Aircraft: -/-

Tunnel Restriction Code: -

## 15. REGULATORY INFORMATION

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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV (List of substances subject to authorization- Substances of very high concern)	Not listed Annex XVII
Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable
Directives 67/548/EWG and 99/45/EG	No identification according to criteria needed
EU Regulation (EC) No 2037/2000 (Ozone Depleting Substances)	Not applicable
Regulation (EC) No 850/2004 (Persistent Organic Pollutants)	Not applicable
Regulation (EC) No 689/2008 (Export and import of dangerous substances)	Not applicable
Directive 2002/95/EC (RoHS)	Not applicable
Directive 2002/96/EC (WEEE)	Not applicable
Directive 1999/13/EC (VOC)	Not applicable
German regulations concerning the classification of hazards for water (WGK <sup>22</sup> )	No information available

### 15.2 Chemical safety assessment

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A Chemical Safety Assessment has not been carried out.

## 16. OTHER INFORMATION

### Revision comments

This safety datasheet, dated 27.07.2020, is the first issue and complies with the requirements of Regulation 1907/2006/EC (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 and Regulation No 1272/2008/EC (CLP).

### Full text of H-Statements referred to under Section 3

Not applicable

Any abbreviations and acronyms used in this document: See footnotes

### SDS prepared by

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Competent Person Accreditation No: TSE KDU-A-0- 0016 (06 August 2018)

### Legal disclaimer

The purpose of the above information is to describe the products only in terms of health and safety requirements.

The information given should not, therefore, be construed as guaranteeing specific properties or as specification.

Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.

<sup>1</sup> EINECS No: Maddenin yapısal özelliğine göre Avrupa Komisyonunca verilmiş olan numara.

<sup>2</sup> CAS No: Kimyasal Kuramlar Servisi tarafından verilen numara.

<sup>3</sup> INDEX No: Tehlikeli kimyasal maddelerin sınıflandırılması, etiketlenmesi ve ambalajlanması konusundaki Avrupa yönetmeliklerine göre tehlikeli kimyasal maddelere atfedilen AB numarası

<sup>4</sup> Type A Filter: Filter for organic vapors and solvents / P3 Filter: Filter for toxic particles and for particles with MAK value smaller than 0,1 mg/m<sup>3</sup>

<sup>5</sup> EN141: European standard for respiratory protective devices.

<sup>6</sup> EN 166: European standard for eye and face protection

<sup>7</sup> EN 374: European standard for gloves giving protection from chemicals and micro-organisms.

<sup>8</sup> EN340: European standard for protective clothing: General requirements

<sup>9</sup> NTP: National Toxicology Program

<sup>10</sup> IARC: The International Agency for Research on Cancer

<sup>11</sup> OSHA: Occupational Safety and Health Association

<sup>12</sup> EWC: European Waste Catalogue

<sup>13</sup> HIN NO: Hazard Identification Number.

<sup>14</sup> ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

<sup>15</sup> RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

<sup>16</sup> ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

<sup>17</sup> IMDG: International Maritime Code for Dangerous Goods.

<sup>18</sup> ICAO: International Civil Aviation Organization.

<sup>19</sup> IATA: International Air Transport Association.

<sup>20</sup> MARPOL 73/78 Annex II: International Convention for the Prevention of Pollution from Ships, Annex II: Regulations for the Control of Pollution by Noxious Liquid Substances in Bulk.

<sup>21</sup> IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

<sup>22</sup> WGK: Wassergefährdungsklasse / Water hazard classification