



**Eni AdBlue®**

Material number 0837

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 4.12.2025  
Version: 9.1  
Replaces version: 9.0  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: Eni AdBlue®

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Additive.  
Waste gas treatment.

### 1.3 Details of the supplier of the safety data sheet

Company name: Enilive Schmiertechnik GmbH  
Street/POB-No.: Paradiesstraße 14  
Postal Code, city: 97080 Würzburg  
Germany  
E-mail: info.wuerzburg@enilive.com  
Telephone: +49 (0)931-90098-0  
Telefax: +49 (0)931-98442  
Department responsible for information:  
Application Engineering & Product Management (AEPM)  
Telephone: +49 (0)931-90098-0  
E-mail: technik.wuerzburg@enilive.com

### 1.4 Emergency telephone number

GIZ-Nord, Göttingen  
Telephone: +49 (0)551-19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

### 2.2 Label elements

#### Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher. The product does not contain any substances classified as PBT or vPvB.



## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: A mixture of: Water and Urea.

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119463277-33-xxxx EC No. 200-315-5 CAS 57-13-6	Urea not classified	32,5 %

Full text of H- and EUH-statements: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
- Following skin contact: Remove residues with soap and water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.  
In case of eye irritation consult an ophthalmologist.
- After swallowing: Rinse mouth. Drink one or two glasses of water.  
Never give anything by mouth to an unconscious person. Seek medical attention.

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

After eye contact: The product can cause irritation of the eyes.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Water spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

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

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Nitrogen oxides (NO<sub>x</sub>), ammonia, carbon monoxide and carbon dioxide.



### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus.

Additional information:

Do not inhale explosion and combustion gases. Do not allow fire water to penetrate into surface or ground water.

## SECTION 6: Accidental release measures

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

Do not breathe mist/vapours/spray. Provide adequate ventilation.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Avoid contact with skin and eyes. Keep unprotected people away.

### 6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Additional information:

Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin and eyes. Do not put any product-impregnated cleaning rags into your trouser pockets.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.

Keep container dry. Keep only in the original container.

Protect from frost, heat and sunlight.

Recommended storage temperature: 10 - 25 °C.

Do not store at temperatures above 30 °C.

Unsuitable container/equipment material: Copper, zinc, alloys (containing copper)

Hints on joint storage:

Do not store together with: Nitrites, strong oxidizing agents, alkalis.

Keep away from food, drink and animal feedingstuffs.

Storage class:

12 = Non-combustible liquids that cannot be assigned to any of the above storage classes



### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

DNEL/DMEL: Information about Urea (CAS 57-13-6):  
DNEL, workers, inhalative, systemic, long-term: 3.526 mg/m<sup>3</sup>  
DNEL, workers, inhalative, systemic, short-term: 3.526 mg/m<sup>3</sup>  
DNEL, workers, dermal, systemic, long-term: 500 mg/kg bw/d  
DNEL, workers, dermal, systemic, short-term: 500 mg/kg bw/d  
DNEL, consumers, inhalative, systemic, long-term: 1.044 mg/m<sup>3</sup>  
DNEL, consumers, inhalative, systemic, short-term: 1.044 mg/m<sup>3</sup>  
DNEL, consumers, dermal, systemic, long-term: 300 mg/kg bw/d  
DNEL, consumers, dermal, systemic, short-term: 300 mg/kg bw/d  
DNEL, consumers, oral, systemic, long-term: 50 mg/kg bw/d  
DNEL, consumers, oral, systemic, short-term: 50 mg/kg bw/d

PNEC: Information about Urea (CAS 57-13-6):  
PNEC, water (freshwater): 14,07 mg/L  
PNEC, water (freshwater, intermittent release): 100 mg/L  
PNEC, water (marine water): 1,407 mg/L  
PNEC, water (marine water intermittent release): 100 mg/L  
PNEC, sewage treatment plant: 1.000 mg/L  
PNEC, sediment (freshwater): 68,66 mg/kg dw  
PNEC, sediment (marine water): 6,866 mg/kg dw  
PNEC, soil: 121 mg/kg dw

### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear respiratory protection.  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to DIN EN ISO 374-1.  
Glove material: Nitrile rubber, polyvinyl chloride.  
Breakthrough time: > 240 min.  
Layer thickness: 0,4 mm.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1.

Body protection: Wear suitable protective clothing.



## General protection and hygiene measures:

Do not breathe mist/vapours/spray. Avoid contact with skin and eyes.  
Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Do not put any product-impregnated cleaning rags into your trouser pockets.

**Environmental exposure controls**

Refer to "6.2 Environmental precautions".

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	colourless
Odour:	like ammonia (weak)
Melting point/freezing point:	approx. -11 °C
Boiling point or initial boiling point and boiling range:	> 100 °C
Flammability:	No data available
Lower and upper explosion limit:	No data available
Flash point:	Not applicable
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	at 20 °C, 100 g/L: 9 - 10 (DIN 51369)
Kinematic viscosity:	No data available
Water solubility:	at 20 °C: Completely miscible
Partition coefficient n-octanol/water (log value):	No data available
Vapour pressure:	at 20 °C: approx. 23 hPa
Density:	at 20 °C: approx. 1,09 g/mL (DIN 51757)
Relative vapour density:	No data available
Particle characteristics:	Not applicable

### 9.2 Other information

Explosive properties:	Not explosive
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Solvent content:	0 %
Water content:	67,5 %
Additional information:	Sustaining combustion: Not sustaining combustion

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".



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#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Reacts violently with nitrites and strong oxidizing agents.

Information about Urea: Contact with Calcium hypochlorite or Sodium hypochlorite liberates Nitrogen trichloride. Explosion risk.

#### 10.4 Conditions to avoid

Protect from frost, heat and sunlight.

Do not store at temperatures above 30 °C.

#### 10.5 Incompatible materials

Nitrites, strong oxidizing agents, alkalis.

#### 10.6 Hazardous decomposition products

Ammonia.

Thermal decomposition: No data available



## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.  
ATEmix (calculated): > 2.000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
ATEmix (calculated): > 2.000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
ATEmix (calculated, vapour): > 20 mg/L  
ATEmix (calculated, dusts/mist): > 5 mg/L

Skin corrosion/irritation: Based on available data, the classification criteria are not met.  
Not an irritant.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.  
Slightly irritant but not relevant for classification.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.  
Not sensitising.

Skin sensitisation: Based on available data, the classification criteria are not met.  
Not sensitising.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

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: Lack of data.

### 11.2 Information on other hazards

Endocrine disrupting properties:

None

Other information:

Information about Urea (CAS 57-13-6):  
LD50 Rat, oral: > 14.300 mg/kg

### Symptoms

After eye contact: The product can cause irritation of the eyes.



## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity:	Information about Urea (CAS 57-13-6): Fish toxicity: LC50 <i>Leuciscus idus</i> : > 6.810 mg/L/96h. Daphnia toxicity: EC50 <i>Daphnia magna</i> (Big water flea): > 10.000 mg/L/48h Bacterial toxicity: EC50 <i>Pseudomonas putida</i> : > 10.000 mg/L/16h
Water Hazard Class:	1 = slightly hazardous to water (Self-classification (mixture).)

### 12.2 Persistence and degradability

Further details:	Readily biodegradable (according to OECD criteria). Information about Urea (CAS 57-13-6): Biodegradation: 96 %/16 d (OECD 302 B), readily biodegradable.
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### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:	No indication of bioaccumulation potential. No data available
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### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

### 12.6 Endocrine disrupting properties

None

### 12.7 Other adverse effects

General information:	Do not allow to enter into ground-water, surface water or drains.
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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number:	16 01 99 = End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08): wastes not otherwise specified
Recommendation:	Dispose of waste according to applicable legislation. Do not allow to enter into ground-water, surface water or drains.

#### Package

Recommendation:	Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.
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## Section 14. Transport information

### 14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

### 14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:

Not restricted

### 14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

### 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

### 14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is not environmentally  
hazardous according to the criteria of the UN  
model regulations.

Marine pollutant - IMDG:

no

### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### National regulations - Germany

Storage class: 12 = Non-combustible liquids that cannot be assigned to any of the above storage classes

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

Further regulations, limitations and legal requirements:

No data available

#### National regulations - EC member states

Further regulations, limitations and legal requirements:

No data available

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



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### SECTION 16: Other information

Reason of change: Changes in section 9: Physical and chemical properties  
Changes in section 11: Toxicological information  
Changes in section 13: Waste key number  
General revision

Date of first version: 21.2.2022

Department issuing data sheet:  
see section 1: Department responsible for information

#### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
AS/NZS: Australian Standards/New Zealand Standards  
ATEmix: Acute Toxicity Estimate of mixture  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EC50: Effective Concentration 50%  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
IMO: International Maritime Organization  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:  
<https://sumdat.net/pu3t6p3q>

