



Eni AdBlue®

Material number 0837

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Safety Data Sheet

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

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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

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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.

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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. Change contaminated clothing. 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_x), ammonia, carbon monoxide and carbon dioxide.

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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

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/m³
DNEL, workers, inhalative, systemic, short-term: 3.526 mg/m³
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/m³
DNEL, consumers, inhalative, systemic, short-term: 1.044 mg/m³
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 16321-1:2022.

Body protection: Wear suitable protective clothing.

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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)
Odour threshold:	No data available
Melting point/freezing point:	approx. -11 °C
Initial boiling point and boiling range:	> 100 °C
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	Not applicable
Decomposition temperature:	No data available
pH:	at 20 °C, 100 g/L: 9 - 10 (DIN 51369)
Viscosity, kinematic:	No data available
Water solubility:	at 20 °C: Completely miscible
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	at 20 °C: approx. 23 hPa
Density:	at 20 °C: approx. 1,09 g/mL (DIN 51757)
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
Water content:	67,5 %
Evaporation rate:	No data available
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.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

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

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

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

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

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.

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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 Leuciscus idus: > 6.810 mg/L/96h.

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 10.000 mg/L/48h

Bacterial toxicity:

EC50 Pseudomonas putida: > 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.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient: n-octanol/water:

No data available

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: 07 01 99 = Wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals: wastes not otherwise specified
MFSU = manufacture, formulation, supply and use

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.

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

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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.

SECTION 16: Other information

Reason of change: Changes in section 1: General use
Changes in section 8: DNEL, PNEC
Changes in section 9: Physical and chemical properties
Changes in section 11 and 12: Endocrine disrupting properties
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
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%
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
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
MFSU: Manufacture, formulation, supply and use
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



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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:
<http://sumdat.net/pu3t6p3q>

