



### Section 1. Identification of the substance/mixture and of the company/undertaking.

1.1 Product identifier:	Eni AdBlue®
1.2 Relevant identified uses of the substance or mixture and uses advised against:	
Use of the substance/mixture:	(DE) Betriebsmittel für Dieselmotoren zur Senkung der Abgasemissionen (GB) Additive to be used for injection into diesel exhaust systems to reduce exhaust emissions (F) Agent de réduction des oxydes d'azote émis par les véhicules équipés de moteur diesel
1.3 Details of the supplier of the safety data sheet:	Eni Schmiertechnik GmbH Paradiesstr. 14, 97080 Würzburg TEL. (+ 49) 931 - 900 98-0 FAX (+ 49) 931-98442
Advising/Support:	Technical Department, Tel. (+49) 931 900 98-145 technik.wuerzburg@agip.de www.enischmiertechnik-datenblaetter.de

### Section 2. Hazards identification.

2.1 Classification of the substance or mixture:	
Classification according to Directive 67/548/EEC or 1999/45/EC:	This mixture is not classified as hazardous according to Directive 1999/45/EC.
Classification according to Regulation (EC) No. 1272/2008 [CLP]:	This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.
2.2 Label elements:	
Additional advice on labelling:	Identification is not obligatory.
2.3 Other hazards:	No risks worthy of mention. Please observe the information on the safety data sheet at all times.

### Section 3. Composition/information on ingredients.

3.2 Mixtures:	
Chemical characterisation:	32,5% (DE) Harnstoff / (GB) Urea / (F) Urée in aqueous solution.
Further information:	Ingredient (name): (DE) Harnstoff / (GB) Urea / (F) Urée. CAS-Nr.: 57-13-6; EG-Nr.: 200-315-5 REACH registration number: 01-2119463277-33 Classification according to Directive 67/548/EEC: none Classification according to EC regulation 12712/2008 (CLP): none

### Section 4. First aid measures.

4.1 Description of first aid measures:	
General information.	First aider: Pay attention to self-protection! Move Victim out of danger zone. In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).
After Inhalation:	Move victim to fresh air. Put victim at rest and keep warm. In all cases of doubt or when symptoms persist, seek medical advice.
After contact with skin:	Wash with plenty of water. Remove contaminated, saturated clothing immediately. In all cases of doubt, or when symptoms persist, seek medical advice.
After contact with eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.
After ingestion:	Do NOT induce vomiting. Get medical advice/attention. Rinse mouth immediately and drink large quantities of water (1 glass). No administration in cases of unconsciousness or cramps.
4.2 Most important symptoms and effects, both acute and delayed:	No information available. In all cases of doubt or when symptoms persist, seek medical advice.



4.3 Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

### Section 5. Fire fighting measures.

#### 5.1 Extinguishing media:

Suitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Special hazards arising from the substance or mixture: In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Ammonia. Nitrogen oxides (NO<sub>x</sub>).

5.3 Advice for fire fighters: In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information: Contaminated fire fighting water must be collected separately. Do not allow to enter surface water or drains.

### Section 6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures: No special precautionary measures are necessary. Avoid contact with skin and eyes. Wear personal protection equipment (handling larger quantities). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.2 Environmental precautions: Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up: Prevent spread over a wide area (e. g. by containment or oil barriers). Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid binding material (e. g. sand, diatomaceous earth, acid or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections: Personal protection equipment: refer to chapter 8.

### Section 7. Handling and storage.

#### 7.1 Precautions for safe handling:

Advice on safe handling: Avoid contact with eyes. Avoid contact with skin. Change contaminated clothing.

Advice on protection against fire and explosion: No special protection measures are necessary.

Further information on handling: No special handling instructions are necessary.

#### 7.2 Condition for safe storage, including any incompatibilities:

Requirements for storage rooms and vessels: Use only containers specifically approved for the substance/ product. Unsuitable materials for Container: copper, alloy, cupric. Zinc. Keep container tightly closed and in a well-ventilated place. Always close containers tightly after the removal of product. Recommended storage temperature: 0 - 25°C.

Advice on storage compatibility: Keep away from food, drink and animal feeding stuffs.

Further information on storage conditions: Protect against: Heat, frost. Protect from direct sunlight.

7.3 Specific end use(s):  
(DE) Betriebsmittel für Dieselmotoren zur Senkung der Abgasemissionen.  
(GB) Additive to be used for injection into diesel exhaust systems to reduce exhaust emissions  
(F) Agent de réduction des oxydes d'azote émis par les véhicules équipés de moteur diesel

### Section 8. Exposure controls / personal protection.

#### 8.1 Control parameters:

Additional advice on limit values: Air limit values: Does not contain substances above concentration limits fixing an occupational exposure limit.

#### 8.2 Exposure controls:

Appropriate engineering controls: No information available.



Protective and hygiene measures:	Do not eat, drink, smoke or sneeze at the workplace. Avoid contact with skin, eye and clothing. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not put any product-impregnated cleaning rags into your trouser pockets. Wash hands before breaks and at the end of work. After cleaning apply high-fat content skin car cream.
Eye protection:	Filling and transfer: Suitable eye protection: Tightly sealed safety glasses (DIN EN 166).
Hand protection:	Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN 420, DIN EN 374. Suitable material: NBR (Nitrile rubber); PVC (Polyvinyl chloride). Required properties: liquid-tight; penetration time (Maximum wearing period): >240 min. Thickness of glove material: 0,4 mm. Before using check leak tightness / impermeability.
Skin protection:	Handling larger quantities: Recommendation: Wear suitable protective clothing.
Respiratory protection:	With correct and proper use, and under normal conditions, breathing protection is not required.
Environmental exposure controls:	No information available.

### Section 9. Physical and chemical properties.

#### 9.1 Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Colourless
Odour:	Slightly like ammonia
pH-Value (at 20°C):	9 - 10 (at g/l: 100) DIN 51369
Changes in the physical state:	
Melting point:	Approx. -11°C
Initial boiling point/range(1013 mbar):	> 100°C
Flashpoint:	Not applicable
Explosive properties:	
Explosive properties:	None
Lower/Upper explosion limits:	Not applicable
Ignition temperature:	Not applicable
Vapour pressure at 20°C:	Approx. 23 hPa
Density at 20°C:	approx. 1,09 g/cm <sup>3</sup> DIN 51757
Water solubility at 20°C:	Completely miscible
Partition coefficient:	No information available
Viscosity, kin.:	Not determined
Solvent content:	Water: 67,5%
9.2 Other information:	None

### Section 10. Stability and reactivity.

10.1 Reactivity:	No information available.
10.2 Chemical stability:	Storage stability: Do not store at temperatures over 30°C.
10.3 Possibility of hazardous reactions:	Do not mix with: Oxidizing agents, strong. (DE) Harnstoff reagiert mit Calciumhypochlorit oder Natriumhypochlorit unter Bildung von explosiven Stickstofftrichlorid. (GB) Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride. (F) Matières à éviter: hypochlorite de calcium ou de sodium (peut former des mélanges explosifs sujets à détonation spontanée).
10.4 Conditions to avoid:	Do not store at temperatures over 30°C.
10.5 Incompatible materials:	Oxidizing agents, strong. Alkalis (alkalis).
10.6 Hazardous decomposition products:	Ammonia.



Further information: None.

### Section 11. Toxicological information.

#### 11.1 Information on toxicological effects:

Toxicokinetics, metabolism and distribution:

There is no data available on the mixture itself.

Acute toxicity:

(DE) Harnstoff / (GB) Urea / (F) Urée (CAS-no.: 57-13-6):

Acute toxicity, oral LD50: 14.300 mg/kg (species: Rat).

Preparation related information: There is no data available on the mixture itself.

Irritation and corrosivity:

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: Slightly irritant but not relevant for classification.

Sensitizing effects:

Respiratory or skin sensitisation: No danger of sensitization. No symptoms known up to now.

Severe effects after repeated or prolonged exposure:

Preparation related information: This information is not available.

Carcinogenic/mutagenic/toxic effects for reproduction:

Classification of the substance or mixture: None

Specific effects in experiment on an animal:

There are no data available on the mixture itself.

Additional information on tests:

None

Practical experience:

Observations relevant to classification: None

Other observations: None

Further information: None

### Section 12. Ecological information.

12.1 Toxicity:

(DE) Harnstoff / (GB) Urea / (F) Urée (CAS-no. 57-13-6):

Species: Daphnia magna, EC50: > 10.000 mg/l (48 h)

Species: Pseudomonas putida, EC50: > 10.000 mg/l (16 h)

Species: Leudiscus idus (golden orfe), LC50: > 6.810 mg/l (96 h)

12.2 Persistence and degradability:

The organic part of product is biodegradable.

Harnstoff / Urea / Urée (CAS-no. 57-13-6):

Degree of elimination: 96% DOC reduction (16 d); Method: OECD 302B.

12.3 Bioaccumulative potential:

No information available.

12.4 Mobility in soil:

Solubility in water (g/l): Complete miscible.

12.5 Results of PBT and vPvB assessment:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

12.6 Other adverse effects:

Further remarks: None.

Further information:

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### Section 13. Disposal considerations.

13.1 Waste treatment methods:

Advice on disposal:

Do not allow to enter into surface water or drains. Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)". Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal.

Contaminated packaging:

Contaminated packaging must be completely emptied and can be re-used following appropriate cleaning. Packing which cannot be properly cleaned must be disposed of.

### Section 14. Transport information.

Land transport (ADR/RID):

14.1 UN number:

Not relevant

14.2 UN proper shipping name:

Not relevant



14.3 Transport hazard class(es):	Not relevant
14.4 Packing group:	Not relevant
Other applicable information (land transport):	No dangerous good in sense of transport regulations.
Inland waterways transport (ADN):	
Other applicable information (Inland waterways transport):	No information available
Marine transport (IMDG):	
Other applicable information (marine transport):	No dangerous good in sense of transport regulations.
Air transport (ICAO):	
Other applicable information (air transport):	No dangerous good in sense of transport regulations.
14.5 Environmental hazards:	Environmentally hazardous: No
14.6 Special precautions for user:	Handling (transport information): No special precautionary measures are necessary. See protective measures under point 7 and 8.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	No information available.
Other applicable information:	None.

### Section 15. Regulatory information.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:	
EU regulatory information:	
Additional information:	None.
National regulatory information:	
Water hazardous class (Germany):	WGK 1; slightly hazardous for water
Additional information:	The receiver of our product is singularly responsible for adhering to existing laws and regulations. Observe in addition any national regulations!
15.2 Chemical Safety Assessment:	Chemical safety assessments for substances in this mixture were not carried out.

### 16. Other information.

This information relates only to the specific product and may not be valid if the product is used in combination with any other material or in any process.

The informations in this sheet are according to our best knowledge at the date of printing.

Changes: 1 - 16