

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

AdBlue® nach ISO 22241-1

Revision date: 14.04.2022

Product code: 76040080-1

Page 1 of 7

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

AdBlue® nach ISO 22241-1

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Emission control.

Waste gas treatment (NOx Reduction).

1.3. Details of the supplier of the safety data sheet

Company name:	FINKE MINERALÖLWERK GMBH	
	Produktionswerk Visselhövede	
Street:	Rudolf-Diesel-Straße 1	
Place:	D-27374 Visselhövede	
Telephone:	+49 (4262) 798	Telefax: +49 (4262) 79 9519
E-mail:	sicherheitsdatenblatt@finke-oil.de	
Contact person:	Technical Service	Telephone: +49 (4262) 79 9603
Internet:	www.finke-oil.de	
Responsible Department:	Technical Service	
1.4. Emergency telephone number:	+356 25456508	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with 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 characterization**

32,5 % Urea in aqueous solution.

Ingredient (name): Urea

CAS-Nr.: 57-13-6; EG-Nr.: 200-315-5

REACH Registrierungsnummer: 01-2119463277-33

Hazardous components

none (according to Regulation (EC) No 1907/2006 (REACH))

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 unwellness, seek medical advice immediately (show directions for use or safety data sheet)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AdBlue® nach ISO 22241-1

Revision date: 14.04.2022

Product code: 76040080-1

Page 2 of 7

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 plenty of water. (1 Glass.)
No administration in cases of unconsciousness or cramps.

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

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: Firefighting measures**5.1. Extinguishing media****Suitable 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: Ammonia (NH₃), Nitrogen oxides (NO_x), Carbon dioxide (CO₂), Carbon monoxide.

5.3. Advice for firefighters

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 into surface water or drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Avoid contact with skin and eyes. 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**Other information**

Take up mechanically, placing in appropriate containers for disposal.
Absorb with liquid-binding material (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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AdBlue® nach ISO 22241-1

Revision date: 14.04.2022

Product code: 76040080-1

Page 3 of 7

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes.
Change contaminated clothing.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Do not eat, drink, smoke or sneeze at the workplace.
Avoid contact with skin, eyes and clothes.
Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use.
Wash hands before breaks and after work.
After cleaning apply high-fat content skin care cream.
Do not put any product-impregnated cleaning rags into your trouser pockets.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Only use containers specifically approved for the substance/product.
Unsuitable materials for Container: Copper, Zinc, alloy, cupric.
Keep container tightly closed and in a well-ventilated place.
Always close containers tightly after the removal of product.
Recommended storage temperature: 10 - 25 °C.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect against: Heat, Frost. Protect from direct sunlight.

7.3. Specific end use(s)

Emission control.
Waste gas treatment (NO_x Reduction).

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.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Filling and transfer: Suitable eye protection: Tightly sealed safety glasses. (EN 166)

Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN 420, EN ISO 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AdBlue® nach ISO 22241-1

Revision date: 14.04.2022

Product code: 76040080-1

Page 4 of 7

Before using check leak tightness / impermeability.

Skin protection

Handling larger quantities: Wear suitable protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Environmental exposure controls

Floors should be impervious, resistant to liquids and easy to clean.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	like: Ammonia (schwach)

Test method

Melting point/freezing point:	approx. -11 °C
Boiling point or initial boiling point and boiling range:	(1,013 mbar) >100 °C
Flash point:	not applicable
pH-Value (at 20 °C):	9 - 10 (at g/l: 100) DIN 51369
Water solubility: (at 20 °C)	completely miscible
Vapour pressure: (at 20 °C)	approx. 23 hPa
Density (at 20 °C):	approx. 1,09 g/cm ³ DIN 51757

9.2. Other information

Information with regard to physical hazard classes

Explosive properties
not explosive.

Sustaining combustion: Not sustaining combustion

Further 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

Violent reaction with: Nitrite, Oxidizing agents, strong.

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

In case of fire may be liberated: Ammonia (NH₃), Nitrogen oxides (NO_x), Carbon dioxide (CO₂), Carbon monoxide.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AdBlue® nach ISO 22241-1

Revision date: 14.04.2022

Product code: 76040080-1

Page 5 of 7

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Irritant effect on the skin: non-irritant.

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

Sensitising effects

Respiratory or skin sensitisation: no danger of sensitization. No known symptoms to date.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

11.2. Information on other hazards**Endocrine disrupting properties**

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

SECTION 12: Ecological information**12.1. Toxicity**

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

12.2. Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

Solubility in water (g/l): completely 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.

PBT: not applicable.

vPvB: not applicable.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AdBlue® nach ISO 22241-1

Revision date: 14.04.2022

Product code: 76040080-1

Page 6 of 7

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

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.

List of Wastes Code - residues/unused products

160199 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; 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

List of Wastes Code - used product

160199 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; 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

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

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

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID 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 these 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 these transport regulations.

Air transport (ICAO-TI/IATA-DGR)**Other applicable information (air transport)**

No dangerous good in sense of these 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. Maritime transport in bulk according to IMO instruments

No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AdBlue® nach ISO 22241-1

Revision date: 14.04.2022

Product code: 76040080-1

Page 7 of 7

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

ISO 22241-1: Diesel engines - NOx reduction agent AUS 32

National regulatory information

Water hazard class (D): 1 - slightly hazardous to 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.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 8,9,10,11,13.

Abbreviations and acronymsADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)