

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

AdBlue® nach ISO 22241-1 (Harnstofflösung 32,5 %)

Print date: 13.07.2015

Product code: 76040080

Page 2 of 7

possible).

After inhalation

Move victim out of danger zone.
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 generous amount of water.
Take off immediately all contaminated clothing.
In case of skin irritation, seek medical treatment.

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.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Extinguishing materials should be selected according to the surrounding area.

Extinguishing media which must not be used for safety reasons

Extinguishing materials should be selected according to the surrounding area.

Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂). Ammonia. Nitrogen oxides (NO_x).

Advice for firefighters

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

Additional information

Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

SECTION 6: Accidental release measures

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 being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

Environmental precautions

Do not empty into drains or the aquatic environment.
Do not allow to enter into soil/subsoil. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

Methods and material for containment and cleaning up

Remove mechanically, placing in appropriate containers for disposal.

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Print date: 13.07.2015

Product code: 76040080

Page 3 of 7

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the assimilated material according to the section on waste disposal.

Reference to other sections

Personal protection equipment: refer to chapter 8.

SECTION 7: Handling and storage

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 fire protection measures are necessary.

Further information on handling

No special handling instructions are necessary.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Only use containers approved for especially this 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 feedingstuffs.

Further information on storage conditions

Protect against: heat, frost. Protect from direct sunlight.

Specific end use(s)

- (D) Betriebsmittel für Dieselmotoren zur Senkung der Abgasemissionen.
- (E) 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

Control parameters

Additional advice on limit values

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

Exposure controls

Occupational exposure 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 care cream.

Respiratory protection

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

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Print date: 13.07.2015

Product code: 76040080

Page 4 of 7

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.

Eye protection

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

Skin protection

Recommendation: Wear suitable protective clothing. (Handling larger quantities.)

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

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

pH-Value (at 20 °C):	9 - 10 (at g/l: 100)	Test method DIN 51369
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Changes in the physical state

Melting point:	ca. -11 °C
Boiling point:	(1,013 mbar) >100 °C
Flash point:	not applicable

Explosive properties

Explosive properties: none/none

Lower explosion limits:	not applicable
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Upper explosion limits:	not applicable
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Ignition temperature:	not applicable
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Vapour pressure: (at 20 °C)	ca. 23 hPa
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Density (at 20 °C):	ca. 1,09 g/cm ³	DIN 51757
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Water solubility: (at 20 °C)	complete miscible
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Partition coefficient:	No information available.
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Viscosity / kinematic:	not determined
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Solvent content:	Water: 67,5 %
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Other information

none/none

SECTION 10: Stability and reactivity

Reactivity

No information available.

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Product code: 76040080

Page 5 of 7

Chemical stability

storage stability: Do not store at temperatures over: 30 °C

Possibility of hazardous reactions

do not mix with: Oxidizing agents, strong.

(D) Harnstoff reagiert mit Calciumhypochlorit oder Natriumhypochlorit unter Bildung von explosivem Stickstofftrichlorid.

(E) 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).

Conditions to avoid

Do not store at temperatures over: 30 °C

Incompatible materials

Oxidizing agents, strong.

Alkalis (alkalis).

Hazardous decomposition products

Ammonia.

Further information

none/none

SECTION 11: Toxicological information

Information on toxicological effects

Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

Acute toxicity, oral LD50: 14300 mg/kg (species: Rat.)

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

Specific effects in experiment on an animal

There are 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

No indications of human carcinogenicity exist.

Additional information on tests

none/none

Empirical data on effects on humans

none/none

none/none

Further information

none/none

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Page 6 of 7

SECTION 12: Ecological information

Toxicity

Harnstoff / Urea / Urée (CAS-No.: 57-13-6):
species: Daphnia magna. EC50: > 10000 mg/l (48 h).
species: Pseudomonas putida. EC50: > 10000 mg/l (16 h).
species: Leuciscus idus (golden orfe). LC50: > 6810 mg/l (96 h).

Persistence and degradability

Organic part of product is bio-degradable.
Harnstoff / Urea / Urée (CAS-No.: 57-13-6):
Degree of elimination: 96 % DOC reduction (16 d); Method: OECD 302B.

Bioaccumulative potential

No information available.

Mobility in soil

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

Results of PBT and vPvB assessment

This information is not available.

Other adverse effects

Further remarks: none/none

Further information

Do not empty into drains or the aquatic environment.
Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal

Do not empty into drains or the aquatic environment. Waste disposal according to official state regulations.
Consult the local waste disposal expert about waste disposal.

Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.
Packing which cannot be properly cleaned must be thrown away.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not a hazardous material with respect to these transportation regulations.

Marine transport

Other applicable information (marine transport)

Not a hazardous material with respect to these transportation regulations.

Air transport

Other applicable information (air transport)

Not a hazardous material with respect to these transportation regulations.

Environmental hazards

Dangerous for the environment: no

Special precautions for user

Handling (Transport information): No special precautionary measures are necessary. See protective

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Page 7 of 7

measures under point 7 and 8.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

Other applicable information

none/none

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

none/none

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

Additional information

The receiver of our product is singularly responsible for adhering to existing laws and regulations. Moreover, national legislation has to be observed!

Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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