

AdBlue Additiv 250ml

Print date: 30.01.2020

Page 1 of 9

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

AdBlue Additiv 250ml

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

Use of the substance/mixture

No information available.

1.3. Details of the supplier of the safety data sheet

| Company name: | VIEROL AG | |
|-------------------------|---------------------------------------|-------------------------------|
| Street: | Karlstrasse 19 | |
| Place: | D-26123 Oldenburg | |
| Telephone: Internet: | +49 (0) 441/21020-0 www.vierol.com | Telefax:+49 (0) 441/21020-111 |

Giftinformationszentrum Nord (Göttingen) +49 (0)551/19240

1.4. Emergency telephone

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Serious eye damage/eye irritation: Eye Dam. 1 Hazard Statements: Causes serious eye damage.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling Alcohols,C9-11-branched, ethoxylated

Signal word:

Pictograms:

Danger

Hazard statements

H318

Causes serious eye damage.

Precautionary statements

| P101 | If medical advice is needed, have product container or label at hand. |
|----------------|--|
| P102 | Keep out of reach of children. |
| P280 | Wear eye protection/face protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if |
| | present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P501 | Dispose of contents/container according to the official regulations. |
| | |

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients



AdBlue Additiv 250ml

Print date: 30.01.2020

Page 2 of 9

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | | |
|-------------|---|-----|------------------|-------------|--|
| | EC No Index No REACH No | | | | |
| | GHS Classification | • | | | |
| 169107-21-5 | Alcohols,C9-11-branched, ethoxyla | ted | | 10 - < 20 % | |
| | 931-561-8 | | | | |
| | Acute Tox. 4, Eye Dam. 1; H302 H3 | | | | |
| 1336-21-6 | ammonia 25 % | | | 0.1 - < 1 % | |
| | 215-647-6 | | 01-2119488876-14 | | |
| | Skin Corr. 1B, STOT SE 3, Aquatic Acute 1; H314 H335 H400 | | | | |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard



AdBlue Additiv 250ml

Print date: 30.01.2020

Page 3 of 9

area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

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). Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Further information on handling

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

Hints on joint storage

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

Further information on storage conditions

Store in a cool dry place. Observe legal regulations and provisions.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



AdBlue Additiv 250ml

Print date: 30.01.2020

Page 4 of 9

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|-----------|--------------------|-----|-------|-----------|---------------|--------|
| 7664-41-7 | Ammonia, anhydrous | 25 | 18 | | TWA (8 h) | WEL |
| | | 35 | 25 | | STEL (15 min) | WEL |

Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long term exposure: after several previous shifts

d before next shift

blood (B) Urine (U)

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Protective and hygiene measures

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

Hand protection

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min Thickness of the glove material 0,45 mm EN ISO 374

LIN 100 3/4

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. When exceeding the relevant workplace exposure limits, note the following: Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Filtering device with filter or ventilator filtering device of type: A Observe the wear time limits as specified by the manufacturer. Observe legal regulations and provisions.

Environmental exposure controls

Observe legal regulations and provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state: | Liquid |
|-----------------|------------------|
| Colour: | colorless, clear |

pH-Value (at 20 °C):

Changes in the physical state

Test method

9 DIN 19268



AdBlue Additiv 250ml

| Print date: 30.01.2020 | | Page 5 of 9 | | | |
|--|----------------------------------|-----------------|--|--|--|
| Melting point: | 0 °C | | | | |
| Initial boiling point and boiling range: | 100 °C | | | | |
| Flash point: | not determined | ISO 3679 | | | |
| Flammability Solid: Gas: | not applicable not applicable | | | | |
| Explosive properties The product is not: Explosive. | | | | | |
| Lower explosion limits: | not determined | | | | |
| Upper explosion limits: | not determined | | | | |
| Auto-ignition temperature Solid: Gas: | not applicable not applicable | | | | |
| Decomposition temperature: | not determined | | | | |
| Oxidizing properties Not oxidising. | | | | | |
| Vapour pressure: | not determined | | | | |
| Density (at 20 °C): | 1 g/cm³ | DIN 51757 | | | |
| Water solubility: | easily soluble | | | | |
| Solubility in other solvents not determined | | | | | |
| Partition coefficient: | not determined | | | | |
| Viscosity / dynamic: | | DIN 53019-1 | | | |
| Viscosity / kinematic: (at 40 °C) | | DIN EN ISO 3104 | | | |
| Flow time: (at 20 °C) | | DIN EN ISO 2431 | | | |
| Vapour density: | not determined | | | | |
| Evaporation rate: | not determined | | | | |
| 9.2. Other information | | | | | |
| Solid content: | not determined | | | | |

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges.

10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.



AdBlue Additiv 250ml

Print date: 30.01.2020

Page 6 of 9

10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

| CAS No | Chemical name | | | | | | |
|-------------|--------------------------------------|------|------------|---------|--------|--|--|
| | Exposure route | Dose | | Species | Source | | |
| 169107-21-5 | Alcohols,C9-11-branched, ethoxylated | | | | | | |
| | oral | LD50 | >300 mg/kg | Rat | | | |

Irritation and corrosivity

Causes serious eye damage.

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

No indications of human carcinogenicity exist.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

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.

Aspiration hazard

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

Specific effects in experiment on an animal

No information available.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.



AdBlue Additiv 250ml

Page 7 of 9

Print date: 30.01.2020

| CAS No | Chemical name | | | | | |
|-------------|-------------------------------|---------|-----------|-----------|----------------------|--------|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source |
| 169107-21-5 | Alcohols,C9-11-branched, etho | xylated | | | | |
| | Acute fish toxicity | LC50 | >10 mg/l | 96 h | | |
| | Acute crustacea toxicity | EC50 | >10 mg/l | 48 h | | |
| | Fish toxicity | NOEC | >1 mg/l | | | |
| | Algea toxicity | NOEC | >1 mg/l | | | |
| | Crustacea toxicity | NOEC | >1 mg/l | | | |
| 1336-21-6 | ammonia 25 % | | | | | |
| | Acute fish toxicity | LC50 | 0,53 mg/l | 96 h | Onchorhynchus mykiss | |
| | Acute crustacea toxicity | EC50 | 24 mg/l | 48 h | Daphnia magna | |

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-----------|---------------|---------|
| 1336-21-6 | ammonia 25 % | -1,38 |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. 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.

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 applicable legislation.

Contaminated packaging

Water (with cleaning agent). Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID) 14.1. UN number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.



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| f Marpol and the IBC Code | |
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| ons/legislation specific for the substance or mixture | |
| | |
| No information available. | |
| No information available. | |
| Not subject to 2012/18/EU (SEVESO III) | |
| | |
| n (EC) No. 1907/2006 (REACH) | |
| | |
| 2 - clearly water contaminating | |
| | |
| nces in this mixture were not carried out. | |
| | |
| | |
| | |
| es marchandises dangereuses par Route (European Agreement | |
| | |
| | |
| | |
| | n (EC) No. 1907/2006 (REACH) 2 - clearly water contaminating nces in this mixture were not carried out. |

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 (division of the American Chemical Society)

DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level



AdBlue Additiv 250ml

Print date: 30.01.2020

Page 9 of 9

WEL (UK): Workplace Exposure Limits TWA (EC): Time-Weighted Average ATE: Acute Toxicity Estimate STEL (EC) Short Term Exposure Limit LC50: Lethal Concentration EC50: half maximal Effective Concentration ErC50: means EC50 in terms of reduction of growth rate

Relevant H and EUH statements (number and full text)

| H302 | Harmful if swallowed. |
|------|--|
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |

Further Information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: Calculation method.

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.)