



SAFETY DATA SHEET

AdBlue®4you

25125

Issuing Date: 05-09-2016

Revision Date: 05-09-2016

Version 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name **AdBlue®4you**
Product Code(s): 25125

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

Recommended use NO_x - Reducing agent

Uses advised against Any other purpose.

1.3. Details of the supplier of the safety data sheet

Supplier

1.4. Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label Elements

Signal Word
None

Hazard Statements

EUH210 - Safety data sheet available on request

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances / 3.2. Mixtures**

This product is a mixture. Health hazard information is based on its ingredients

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Urea	200-315-5	57-13-6	25% - 50%	**	01-2119463277-33-00 18

Additional information

** Substances for which there are Community workplace exposure limits

Full text of H- and EUH-phrases: see section 16**SECTION 4: FIRST AID MEASURES****4.1. Description of first-aid measures**

General advice	If symptoms persist, call a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. Hazardous decomposition products. Symptoms may be delayed.
Skin contact	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Ingestion	Clean mouth with water. Drink plenty of water. Do not induce vomiting without medical advice.
Protection of First-aiders	Use personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed**Main Symptoms** None**4.3. Indication of immediate medical attention and special treatment needed****Notes to physician** Symptoms may be delayed.**SECTION 5: FIRE FIGHTING MEASURES****5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment:., Use CO2, dry chemical,

or foam, Water spray or fog

Extinguishing media which shall not be used for safety reasons

None

5.2. Special hazards arising from the substance or mixture**Special Hazard**

Sealed containers may rupture when heated.

Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides (NOx), Ammonia.

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment.

Advice for non-emergency personnel

Material can create slippery conditions.

Advice for emergency responders For personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills.

6.4. Reference to other sections

See Section 8/12/13 for additional information

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Have eye-wash facilities immediately available.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature. Keep at a temperature not exceeding 30 °C. Keep away from direct sunlight.

Incompatible Materials

Zinc

7.3. Specific end uses**Recommended use**

NO_x - Reducing agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Chemical Name	European Union	United Kingdom	France	Spain
Ammonia	TWA 20 ppm TWA 14 mg/m ³ STEL 50 ppm STEL 36 mg/m ³	STEL: 35 ppm STEL: 25 mg/m ³ TWA: 25 ppm TWA: 18 mg/m ³	TWA: 10 ppm TWA: 7 mg/m ³ STEL: 20 ppm STEL: 14 mg/m ³	STEL: 50 ppm STEL: 36 mg/m ³ TWA: 20 ppm TWA: 14 mg/m ³

Chemical Name	Germany	Italy	Portugal	The Netherlands
Ammonia	TWA: 20 ppm TWA: 14 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 28 mg/m ³	TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 36 mg/m ³	STEL: 50 ppm STEL: 36 mg/m ³ TWA: 20 ppm TWA: 14 mg/m ³	STEL: 36 mg/m ³ TWA: 14 mg/m ³

Chemical Name	Austria	Switzerland	Poland	Ireland
Ammonia	STEL 50 ppm STEL 36 mg/m ³ TWA: 20 ppm TWA: 14 mg/m ³	STEL: 40 ppm STEL: 28 mg/m ³ TWA: 20 ppm TWA: 14 mg/m ³	STEL: 28 mg/m ³ TWA: 14 mg/m ³	TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 36 mg/m ³

Chemical Name	Finland	Denmark	Norway	Sweden
Urea			TWA: 30 µg Hg/g Creatinine STEL: 30 µg Hg/g Creatinine	
Ammonia	TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 36 mg/m ³	TWA: 20 ppm TWA: 14 mg/m ³	TWA: 15 ppm TWA: 11 mg/m ³ TWA: 20 ppm STEL: 15 ppm STEL: 11 mg/m ³ STEL: 20 ppm	LLV: 20 ppm LLV: 14 mg/m ³ CLV: 50 ppm CLV: 36 mg/m ³

Chemical Name	Czech Republic	Hungary	Bulgaria	Romania
Urea			TWA: 10.0 mg/m ³	
Ammonia	Ceiling: 36 mg/m ³ TWA: 14 mg/m ³	STEL: 36 mg/m ³ TWA: 14 mg/m ³	STEL: 50 ppm STEL: 36.0 mg/m ³ TWA: 14.0 mg/m ³ TWA: 20 ppm	TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 36 mg/m ³

Chemical Name	Greece	Cyprus	Turkey	Malta
Ammonia	TWA: 50 ppm TWA: 35 mg/m ³ STEL: 50 ppm STEL: 35 mg/m ³	STEL: 50 ppm STEL: 36 mg/m ³ TWA: 20 ppm TWA: 14 mg/m ³	STEL: 50 ppm STEL: 36 mg/m ³ TWA: 20 ppm TWA: 14 mg/m ³	STEL: 50 ppm STEL: 36 mg/m ³ TWA: 20 ppm TWA: 14 mg/m ³

Chemical Name	Belgium	Luxembourg	Iceland	Croatia
Ammonia	TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 36 mg/m ³	STEL: 50 ppm STEL: 36 mg/m ³ TWA: 20 ppm TWA: 14 mg/m ³	TWA: 20 ppm TWA: 14 mg/m ³ (s) STEL: 50 ppm STEL: 36 mg/m ³	TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 36 mg/m ³ Skin
Chemical Name	Russia	Estonia	Latvia	Lithuania
Urea	MAC: 10 mg/m ³		TWA: 10 mg/m ³	TWA: 10 mg/m ³
Ammonia	MAC: 20 mg/m ³	STEL: 50 ppm STEL: 36 mg/m ³ TWA: 20 ppm TWA: 14 mg/m ³	TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 36 mg/m ³	TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 36 mg/m ³
Chemical Name	Belarus	Ukraine	Slovakia	Slovenia
Ammonia			TWA: 20 ppm TWA: 14 mg/m ³	TWA: 20 ppm TWA: 14 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³
Chemical Name	Serbia	Macedonia	Liechtenstein	South Africa
Ammonia	TWA: 20 ppm TWA: 14 mg/m ³ (s) STEL: 50 ppm STEL: 36 mg/m ³	TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 35 mg/m ³	TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 36 mg/m ³	

Workers Systemic toxicity

Chemical Name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation exposure	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation exposure
Urea		580 mg/kg bw/day	292 mg/m ³		580 mg/kg bw/day	292 mg/m ³

Workers Local effects**Consumers Systemic toxicity**

Chemical Name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation exposure	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation exposure
Urea	42 mg/kg bw/day	580 mg/kg bw/day	125 mg/m ³	42 mg/kg bw/day	580 mg/kg bw/day	125 mg/m ³

Consumers Local effects**Predicted No Effect Concentration (PNEC)****8.2. Exposure controls****Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment**Eye Protection**

Safety glasses with side-shields.

Hand Protection

Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts,

Skin and body protection	abrasion.
Respiratory protection	Long sleeved clothing. No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Hygiene measures	Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.
Environmental Exposure Controls	No special environmental precautions required.
Thermal hazards	None under normal use conditions

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state @20°C	liquid	Appearance	clear colorless
Odor	Slight Ammoniacal	Odor Threshold	Not Applicable
<u>Property</u>	<u>Values</u>	<u>Note</u>	
pH	<= 10	@10%	
Melting Point / Freezing Point	-11.5 °C / 11 °F		
Boiling point/boiling range	103 °C / 217 °F		
Flash point	No information available		
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limits in Air			
upper flammability limit	No information available		
Lower flammability limit	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Relative density	1.090	@20°C	
Solubility(ies)	Miscible		
Partition coefficient: n-octanol/water	Not Applicable		
Autoignition temperature	No information available		
Decomposition temperature	100 °C		
Viscosity, kinematic	4 mPa.s @ 25°C		
Explosive properties	Not Applicable		
Oxidizing Properties	Not Applicable		

9.2. Other information

Viscosity, kinematic (100°C)	No information available
Pour point	No information available
VOC Content (ASTM E-1868-10)	No information available
VOC content	No information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Heating can release hazardous gases

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat

10.5. Incompatible Materials

Zinc

10.6. Hazardous decomposition products

Carbon oxides, Nitrogen oxides (NOx), Ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Product Information - Principle Routes of Exposure**

Inhalation	None known
Eye contact	None known
Skin contact	None known
Ingestion	None known

Acute toxicity - Product Information

Product does not present an acute toxicity hazard based on known information.

Acute toxicity - Component Information

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
Urea	= 8471 mg/kg (Rat)		

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

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

Sensitization**Respiratory Sensitization**

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

Skin sensitization

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

Germ Cell Mutagenicity

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.

Specific target organ systemic toxicity (single exposure)

Based on available data, the classification criteria are not met

Specific target organ systemic toxicity (repeated exposure)

Based on available data, the classification criteria are not met

Aspiration hazard

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

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No special environmental measures are necessary

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Urea		16200 - 18300: 96 h Poecilia reticulata mg/L LC50		3910: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna Straus mg/L EC50

12.2. Persistence and degradability

Expected to be biodegradable.

12.3. Bioaccumulative potential

Chemical Name	log Pow
Urea	-1.59

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with local regulations

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Observe all label precautions until container is cleaned, reconditioned or destroyed.

Other Data

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

SECTION 14: TRANSPORT INFORMATION

14.1. UN-Number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Transport hazard class

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental Hazards

None

14.6. Special precautions for users

None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

IMDG/IMO Not regulated

ADR/RID Not regulated

IATA Not regulated

ADN Not regulated

SECTION 15: REGULATORY INFORMATION

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

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)
Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

15.2. Chemical Safety Assessment

No information available

SECTION 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Repr.-Reproduction toxicity
 Asp. Tox. - Aspiration Toxicity
 Acute Tox. - Acute Toxicity
 Aquatic Acute - Acute Aquatic Toxicity
 Aquatic Chronic - Chronic Aquatic Toxicity
 Eye Dam. - Eye Damage
 Eye Irrit. - Eye Irritation
 Skin Corr. - Skin Corrosion
 Skin Irrit. - Skin Irritation
 Skin Sens. - Skin Sensitizer
 Resp. Sens. - Respiratory Sensitizer
 STOT SE - Specific target organ systemic toxicity (Single exposure)
 STOT RE - Specific target organ systemic toxicity (repeated exposure)
 VOC - Volatile organic compounds

Full text of H-Statements referred to under sections 2 and 3

<ul style="list-style-type: none"> • H224 - Extremely flammable liquid and vapor • H225 - Highly flammable liquid and vapor • H226 - Flammable liquid and vapor • H270 - May cause or intensify fire; oxidizer • H271 - May cause fire or explosion; strong oxidizer • H272 - May intensify fire; oxidizer • H290 - May be corrosive to metals • H300 - Fatal if swallowed • H301 - Toxic if swallowed • H302 - Harmful if swallowed • H304 - May be fatal if swallowed and enters airways • H310 - Fatal in contact with skin • H311 - Toxic in contact with skin • H312 - Harmful in contact with skin • H314 - Causes severe skin burns and eye damage • H315 - Causes skin irritation • H317 - May cause an allergic skin reaction • H318 - Causes serious eye damage • H319 - Causes serious eye irritation • H330 - Fatal if inhaled • H331 - Toxic if inhaled • H332 - Harmful if inhaled • H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled • H335 - May cause respiratory irritation • H336 - May cause drowsiness or dizziness • H340 - May cause genetic defects 	<ul style="list-style-type: none"> • H341 - Suspected of causing genetic defects • H350 - May cause cancer • H351 - Suspected of causing cancer • H360 - May damage fertility or the unborn child • H361 - Suspected of damaging fertility or the unborn child • H362 - May cause harm to breast-fed children • H370 - Causes damage to organs • H371 - May cause damage to organs • H372 - Causes damage to organs through prolonged or repeated exposure • H373 - May cause damage to organs through prolonged or repeated exposure • H400 - Very toxic to aquatic life • H410 - Very toxic to aquatic life with long lasting effects • H411 - Toxic to aquatic life with long lasting effects • H412 - Harmful to aquatic life with long lasting effects • H413 - May cause long lasting harmful effects to aquatic life • H360Df - May damage the unborn child. Suspected of damaging fertility • H360D - May damage the unborn child • H360FD - May damage fertility. May damage the unborn child • H360F - May damage fertility • H361d - Suspected of damaging the unborn child • H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child • H361f - Suspected of damaging fertility • EUH066 - Repeated exposure may cause skin dryness or cracking • EUH210 - Safety data sheet available on request • EUH208 - May produce an allergic reaction
---	--

Exposure scenario

No information available

Revision Date:

05-09-2016

Revision Note

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.