

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

**BRENNTAG ADBLUE**

Version 3.2

Print Date 2015/09/29

Revision date / valid from 2015/09/29

**MSDS code: MVVV483****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : BRENNTAG ADBLUE

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Uses advised against : At this moment we have not identified any uses advised against

**1.3. Details of the supplier of the safety data sheet**Company : Brenntag UK & Ireland  
Albion House, Rawdon Park  
GB LS19 7XX Leeds Yeadon  
Telephone : +44 (0) 113 3879 200  
Telefax : +44 (0) 113 3879 280  
E-mail address : msds@brenntag.co.uk**1.4. Emergency telephone number**Emergency telephone number : Emergency only telephone number (open 24 hours):  
+44 (0) 1865 407333 (N.C.E.C. Culham)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**This substance is not classified as dangerous according to Directive 67/548/EEC.  
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.**Most important adverse effects**

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Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

Further information : Handle in accordance with good industrial hygiene and safety practice.

### 2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

## SECTION 3: Composition/information on ingredients

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

#### Non-hazardous component

Chemical Name	Identification Number	Amount [%]
Urea	CAS-No. : 57-13-6 EC-No. : 200-315-5	< 33

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice : No special precautions required.

If inhaled : Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and

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persists.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

If swallowed : Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do NOT induce vomiting.

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

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : No information available.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Under fire conditions: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Ammonia, Nitrogen oxides (NO<sub>x</sub>)

### 5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Do not breathe vapours or spray mist.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Avoid contact with skin and eyes. For personal protection see section 8.

### 6.2. Environmental precautions

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Environmental precautions : Do not flush into surface water or sanitary sewer system.

### 6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

### 6.4. Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Provide adequate ventilation. Avoid contact with the skin and the eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep away from heat. Protect from frost.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

Specific use(s) : No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Other Occupational Exposure Limit Values

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(Additional) Information : Contains no substances with occupational exposure limit values.

**8.2. Exposure controls****Personal protective equipment***Respiratory protection*

Advice : Required if dust is released  
Dust-mask  
If ventilation is insufficient, suitable respiratory protection must be provided

Filter Type : P2 filter

*Hand protection*

Advice : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Break through time : > 480 min

*Eye protection*

Advice : Safety goggles

*Skin and body protection*

Advice : Protective work clothing

**Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Form : liquid

Colour : colourless

Odour : ammoniacal

Odour Threshold : no data available

pH : 9 - 10

Melting point/freezing point : -11.5 °C

Initial boiling point and boiling range : 100 °C

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Flash point	: Not applicable
Evaporation rate	: not determined
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: not determined
Relative vapour density	: not determined
Relative density	: Not determined.
Density	: 1.09 g/cm <sup>3</sup> (20 °C)
Water solubility	: > 100 g/l miscible
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: 100 °C
Viscosity, dynamic	: 1.4 mPa.s (20 °C)
Viscosity, kinematic	: not determined
Explosivity	: no data available
Oxidizing properties	: no data available

**9.2. Other information**

No further information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Advice : No specific test data related to reactivity available for this product or its ingredients.

**10.2. Chemical stability**

Advice : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : Under normal conditions of storage and use, hazardous

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reactions will not occur.

**10.4. Conditions to avoid**

Conditions to avoid :  
 Thermal decomposition : 100 °C

**10.5. Incompatible materials**

Materials to avoid : Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride. Oxidizing agents, Acids, nitrites, nitrates, alkalis

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Carbon oxides, nitrogen oxides, ammonia

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

**Oral**

no data available

**Inhalation**

no data available

**Dermal**

no data available

**Irritation**

**Skin**

no data available

**Eyes**

no data available

**Sensitisation**

Result : No sensitizing effect known.

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**CMR effects**

**CMR Properties**

Carcinogenicity : no data available  
 Mutagenicity : no data available  
 Reproductive toxicity : no data available

**Specific Target Organ Toxicity**

**Single exposure**

no data available

**Repeated exposure**

no data available

**Other toxic properties**

**Repeated dose toxicity**

no data available

**Aspiration hazard**

no data available

**Further information**

Other relevant toxicity information : Handle in accordance with good industrial hygiene and safety practice.  
 Experience with human exposure : Health injuries are not known or expected under normal use.

**Component: Urea CAS-No. 57-13-6**

**Acute toxicity**

**Oral**

LD50 : 8471 mg/kg (Rat)

**Other toxic properties**

**Aspiration hazard**

Not applicable



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**SECTION 12: Ecological information**

**12.1. Toxicity**

<b>Component:</b>	<b>Urea</b>	<b>CAS-No. 57-13-6</b>
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**Acute toxicity**

**Fish**

LC50 : > 6810 mg/l (Leuciscus idus (Golden orfe)) (DIN 38412)

**Toxicity to daphnia and other aquatic invertebrates**

LC50 : > 10000 mg/l (Daphnia magna; 48 h)

**algae**

> 10000 mg/l (Scenedesmus quadricauda (Green algae); 8 d)

**Bacteria**

> 10000 mg/l (Pseudomonas putida; 16 h)

**12.2. Persistence and degradability**

**Persistence and degradability**

**Persistence**

Result : The product is water soluble.

**Biodegradability**

Result : Readily biodegradable

<b>Component:</b>	<b>Urea</b>	<b>CAS-No. 57-13-6</b>
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**Persistence and degradability**

**Biodegradability**

Result : Readily biodegradable

**12.3. Bioaccumulative potential**

**Bioaccumulation**

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Result : Bioaccumulation is not expected.

**12.4. Mobility in soil****Mobility**

Result : The product is water soluble.

**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment**

Result : no data available

**12.6. Other adverse effects****Additional ecological information**

Result : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

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

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

**SECTION 14: Transport information**

Not dangerous goods for ADR, RID, IMDG and IATA.

**14.1. UN number**

Not applicable.

**BRENNTAG ADBLUE****14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

Not applicable.

**14.4. Packaging group**

Not applicable.

**14.5. Environmental hazards**

Not applicable.

**14.6. Special precautions for user**

Not applicable.

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

IMDG : Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical Safety Assessment**

no data available

**SECTION 16: Other information****Further information**

Key literature references : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material

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or in any process, unless specified in the text

|| Indicates updated section.