

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

1.4. Emergency telephone number

Emergency telephone number : +44 (0) 1865 407333 (N.C.E.C. Culham)
Emergency only telephone number (open 24 hours):

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

1.2. 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

1.1. Product identifier

Trade name : BRENNTAG ADBLUE

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

BRENNTAG ADBLUE

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

Version 3.2

Revision date / valid from 2015/09/29

MSDS code: MVVV483

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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

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

2.2. Label elements

Labeling 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 VPB assessment see section 12.5.

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.



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

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

Other Occupational Exposure Limit Values

SECTION 8: Exposure controls/personal protection
 8.1. Control parameters

7.3. Specific end use(s)
 Specific use(s) : No information available.

7.2. Conditions for safe storage, including any incompatibilities
 Requirements for storage : 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 feedingsstuffs.

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 feedingsstuffs. 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.

SECTION 7: Handling and storage

6.4. Reference to other sections
 For personal protection see section 8.

6.3. Methods and materials for containment and cleaning up
 Environmental precautions : Do not flush into surface water or sanitary sewer system.
 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.

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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

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

9.2. Other information
 No further information available.

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/cm³ (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

Result	: No sensitizing effect known.
Sensitisation	
	no data available
Eyes	
	no data available
Skin	
Irritation	
	no data available
Dermal	
	no data available
Inhalation	
	no data available
Oral	
Acute toxicity	

SECTION 11: Toxicological information
 11.1. Information on toxicological effects

10.6. Hazardous decomposition products	Hazardous decomposition : Carbon oxides, nitrogen oxides, ammonia products
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
10.4. Conditions to avoid	Conditions to avoid : Thermal decomposition : : 100 °C
reactions will not occur.	

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Not applicable

Aspiration hazard

Other toxic properties

LD50 : 8471 mg/kg (Rat)

Oral

Acute toxicity

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

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.

Further information

no data available

Aspiration hazard

no data available

Repeated dose toxicity

Other toxic properties

no data available

Repeated exposure

no data available

Single exposure

Specific Target Organ Toxicity

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

CMR Properties

CMR effects

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SECTION 12: Ecological information

12.1. Toxicity

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

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

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

Persistence and degradability

Biodegradability

Result : Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

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Not applicable.

14.1. UN number

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

SECTION 14: Transport information

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.

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.

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.

13.1. Waste treatment methods

SECTION 13: Disposal considerations

Result

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

Additional ecological information

12.6. Other adverse effects

Result

no data available

Results of PBT and VPB assessment

12.5. Results of PBT and VPB assessment

Result

The product is water soluble.

Mobility

12.4. Mobility in soil

Result

Bioaccumulation is not expected.

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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

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

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 : Not applicable.

IMDG : Not applicable.

|| Indicates updated section.

or in any process, unless specified in the text

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