Revision date: 16/10/2018 Revision: 10 Supersedes date: 19/04/2018



# SAFETY DATA SHEET

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

## 1.1. Product identifier

Product name CleanAirBlue® AdBlue®

Product number 4303

Synonyms; trade names AdBlue®/ Urea Solution/DEF/ARLA 32

**CAS number** 57-13-6 **EC number** 200-315-5

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

**Identified uses** Fuel additive.

# 1.3. Details of the supplier of the safety data sheet

Supplier Samuel Banner & Co Ltd

2M House

Sutton Quays Business Park

Clifton Road Sutton Weaver RUNCORN WA7 3EH, UK

+44 (0)1928 597 000 (General Enquiries)

+44 (0)1928 240 801 (Fax)

Contact person sdsadmin@bannerchemicals.com

### 1.4. Emergency telephone number

Emergency telephone 0870 190 6777 (National Chemical Emergency Centre) +44 (0)1270 502891

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

**EC number** 200-315-5

Hazard statements NC Not Classified

Precautionary statements P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

# 2.3. Other hazards

# SECTION 3: Composition/information on ingredients

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#### 3.2. Mixtures

urea 30-60%

CAS number: 57-13-6 EC number: 200-315-5

Classification
Not Classified

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments Contains water and preservative

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation Remove affected person from source of contamination. Get medical attention if any discomfort

continues.

**Ingestion** Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical

attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort

continues.

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

General information No additional symptoms or effects are anticipated.

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

Notes for the doctor Treat symptomatically.

# SECTION 5: Firefighting measures

# 5.1. Extinguishing media

# 5.2. Special hazards arising from the substance or mixture

**Specific hazards** In case of fire, toxic gases may be formed.

Hazardous combustion

products

Does not decompose when used and stored as recommended.

## 5.3. Advice for firefighters

Protective actions during

firefighting

Use water spray to reduce vapours.

Special protective equipment

for firefighters

Use air-supplied respirator, gloves and protective goggles.

# SECTION 6: Accidental release measures

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

Personal precautions Provide adequate ventilation.

# 6.2. Environmental precautions

Environmental precautions Contain spillage with sand, earth or other suitable non-combustible material. Avoid discharge

into drains or watercourses or onto the ground.



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

Methods for cleaning up

Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste

disposal containers and seal securely. Flush contaminated area with plenty of water.

#### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Provide adequate ventilation.

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

Storage precautions Store at moderate temperatures in dry, well ventilated area. Store in closed original container

at temperatures between 0°C and 30°C. Do not use containers made of the following

materials: Copper and its alloys. Galvanised containers.

### 7.3. Specific end use(s)

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

### Occupational exposure limits

urea

Long-term exposure limit (8-hour TWA): WEL No std. Short-term exposure limit (15-minute): WEL No std.

WEL = Workplace Exposure Limit

**Ingredient comments** No exposure limits known for ingredient(s).

DNEL No DNEL information available.

PNEC No PNEC information available.

# 8.2. Exposure controls

## Protective equipment





Appropriate engineering

controls

Provide adequate ventilation.

**Eye/face protection** Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment for

eye and face protection should comply with European Standard EN166.

Hand protection Wear protective gloves. Wear protective gloves made of the following material: Polyvinyl

chloride (PVC). To protect hands from chemicals, gloves should comply with European

Standard EN374.

Other skin and body

protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures Provide eyewash station. Wash at the end of each work shift and before eating, smoking and

using the toilet.

**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn.

# SECTION 9: Physical and chemical properties



#### 9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Colourless.

Odour Slight.

pH pH (concentrated solution): 10

Initial boiling point and range 103°C

Relative density 1.09 @ 20°C

Solubility(ies) Miscible with water.

Viscosity 1.4 mPa s @ 25°C

9.2. Other information

**Refractive index** 1.3814 - 1.3843

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended. Product freezes at -

11°C. Product starts to hydrolyse at 30°C.

# 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Nitrites Acids. Alkalis. Calcium hypochlorite. Sodium hypochlorite.

Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen

trichloride.

### 10.6. Hazardous decomposition products

Hazardous decomposition

Ammonia

products

# SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

**Inhalation** Remove from contaminated area. Lay patient down. Keep warm and rested.

Ingestion Although ingestion is not thought to be harmful, the material may lead to discomforting effects

by inducing gastrointestinal tract pain leading to nausea and vomiting. In an occupational

setting, ingestion of insignificant quantities should not be a cause for concern.

**Skin contact** Product can produce inflammation of the skin following prolonged contact or immersion. Skin

contact is not thought to have harmful health effects, the material may still produce adverse effects following entry through wounds, lesions or abrasions, where a stinging sensation will

be felt.



Eye contact Although the material is not classed as an irritant, direct contact with the eye may produce

transient discomfort characterised by tearing or conjectival redness.

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LC₅o, 96 hours: >6810 mg/l, Fish

### 12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

# 12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

**Mobility** No information available.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

No information available

# 12.6. Other adverse effects

Other adverse effects None known.

### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site

in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods**Recycle containers wherever possible. This product is not classified as hazardous waste.

## **SECTION 14: Transport information**

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

# 14.1. UN number

Not applicable.

# 14.2. UN proper shipping name

Not applicable.

## 14.3. Transport hazard class(es)

No transport warning sign required.

# 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

# Environmentally hazardous substance/marine pollutant

No.

## 14.6. Special precautions for user

Not applicable.



### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

**EU legislation** Regulation (EC) No 1272/2008 CLP.

Regulation (EC) No 1907/2006 REACH.

Guidance Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

General information Only trained personnel should use this material. Since empty containers retain product

residue, follow label warnings, even after container is emptied. For further Health and Safety information contact: Health and Safety Officer. Labels should not be removed from containers

until they have been cleaned and no product remains within.

Revision comments Updated company address.

**Issued by** Compliance Department

Revision date 16/10/2018

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SDS status Approved.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for his own particular use.