



Banner Chemicals Group UK
Flying the flag of excellence for over 150 years

SAFETY DATA SHEET

CleanAirBlue™ AdBlue®

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

1.1. Product identifier

Product name CleanAirBlue™ AdBlue®
Product No. 4303
Synonyms, Trade Names AdBlue®/ Urea Solution/DEF/ARLA 32
CAS-No. 57-13-6
EC No. 200-315-5

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

Identified uses Additive

1.3. Details of the supplier of the safety data sheet

Supplier Samuel Banner & Co Ltd
Hampton Court
Manor Park
Runcorn
Cheshire
WA7 1TU, UK
+44 (0)1928 597 000 (General Enquiries)
+44 (0)1928 597 001 (Fax)
sdsadmin@bannerchemicals.com
Contact Person sdsorder@bannerchemicals.com

1.4. Emergency telephone number

0207 405 5375 (National Chemical Emergency Centre)
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 and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

2.2. Label elements

EC No. 200-315-5
Label In Accordance With (EC) No. 1272/2008
No pictogram required.

Precautionary Statements

P305+351+338 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

3.2. Mixtures

CleanAirBlue™ AdBlue®

urea	32.5%
CAS-No.: 57-13-6	EC No.: 200-315-5
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.

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

CAS-No. 57-13-6
EC No. 200-315-5

Composition Comments

Contains water and preservative

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

Ingestion

DO NOT INDUCE VOMITING! Get medical attention if any discomfort continues.

Skin contact

Wash the skin immediately with soap and water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. 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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

None under normal conditions.

Specific hazards

In case of fire, toxic gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Use water spray to reduce vapours.

Protective equipment for fire-fighters

Face mask, protective gloves and safety helmet. Wear suitable respiratory protection when dealing with a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material.

CleanAirBlue™ AdBlue®

6.3. Methods and material for containment and cleaning up

Absorb spillage with non-combustible, absorbent material. Collect in containers and seal securely. Remove containers and flush area with water.

6.4. 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**

Avoid contact with skin and eyes. Provide good ventilation.

7.2. Conditions for safe storage, including any incompatibilities

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 container made of: Copper and its alloys. Galvanised containers.

7.3. Specific end use(s)**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
urea	WEL	No std.		No std.		

WEL = Workplace Exposure Limit.

Ingredient Comments

No exposure limits noted for ingredient(s).

No DNEL information available.

No PNEC information available.

8.2. Exposure controls**Protective equipment****Process conditions**

Provide eyewash station.

Engineering measures

Provide adequate ventilation.

Respiratory equipment

Wear suitable respiratory protection.

Hand protection

Wear protective gloves. Manufactured/tested in accordance with EN 374. Polyvinyl chloride (PVC).

Eye protection

Wear goggles/face shield. Manufactured/Tested in accordance with EN 166.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance	Clear liquid.
Colour	Colourless.

CleanAirBlue™ AdBlue®

Odour	Slight odour.
Solubility	Miscible with water
Initial boiling point and boiling range (°C)	103°C
Relative density	1.09 @ 20°C
pH-Value, Conc. Solution	10
Viscosity	1.4 mPas @ 25°C

9.2. Other information

Refractive Index	1.3814 - 1.3843
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Product freezes at -11°C. Product starts to hydrolyse at 30°C.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Not known.

10.5. Incompatible materials**Materials To Avoid**

Strong oxidising substances. Nitrites

10.6. Hazardous decomposition products

Ammonia

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Toxic Dose 1 - LD 50**

14300 - 15000 (Urea) mg/kg (oral rat)

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 conjunctival redness.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l >6810

12.2. Persistence and degradability

CleanAirBlue™ AdBlue®**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

No information available

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

General This product is not hazardous for transportation.

14.1. UN number**14.2. UN proper shipping name****14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards****14.6. Special precautions for user****14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

SECTION 15: REGULATORY INFORMATION

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

Chemicals (Hazard Information & Packaging) Regulations.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Regulation (EC) No 1272/2008 CLP. Regulation (EC) No 1907/2006 REACH.

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.

CleanAirBlue™ AdBlue®**Information Sources**

Manufacturer's Material Safety Data Sheet Approved Supply List

Revision Comments

Updated product name.

Issued By Compliance Department**Revision Date** 17/10/2013**Revision** 5**Supersedes date** 18/04/2012**Safety Data Sheet Status** Approved.**Date** 04-Sep-15**Disclaimer**

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.