

SAFETY DATA SHEET

Page 1 of 3

BlueCat AdBlue.

Revision 0
Revision date

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name BlueCat AdBlue.
Company Brockley Group Limited
1 Abbey Street
Howth
County Dublin
Ireland
info@brockley.eu
www.brockleygroup.com
Telephone +353 1 8392016
Fax +353 1 8392869
Emergency telephone number +353 1 8167029

2. COMPOSITION / INFORMATION ON INGREDIENTS

Description Solution of Urea in Water.

3. HAZARDS IDENTIFICATION

Main hazards No Significant Hazard

4. FIRST AID MEASURES

Skin contact May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Eye contact May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Inhalation May cause irritation to mucous membranes. Move the exposed person to fresh air.
Ingestion May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

5. FIRE FIGHTING MEASURES

Extinguishing media Use extinguishing media appropriate to the surrounding fire conditions.
Fire hazards Burning produces irritating, toxic and obnoxious fumes.
Protective equipment Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation of the working area.
Environmental precautions Do not allow product to enter drains. Prevent further spillage if safe.
Clean up methods Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

BlueCat AdBlue.

Revision 0
Revision date

7. HANDLING AND STORAGE

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|---------------------------|---|
| Handling | Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. In order to avoid crystallisation or hydrolysis of AdBlue resp. It is recommended to store the product under normal conditions at temperatures between -5 to 30 Deg. C. This product is not flammable. |
| Storage | Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Avoid subsoil penetration. |
| Suitable packaging | Tanks and related facilities which may get in contact with AdBlue, shall be made of high alloyed austenitic Cr-Ni Steel and Mo-Cr-Ni steel according to DIN EN 10 088-1 to 3 (e.g. 1.4541 and 1.4571). UNSUITABLE: Materials such as Copper, copper-containing alloys and unalloyed and galvanised steels are not suitable. Under these conditions, AdBlue has a shelf life of at least one year. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Engineering measures | Ensure adequate ventilation of the working area. |
| Hand protection | Chemical resistant gloves (PVC) |
| Eye protection | In case of splashing, wear: Approved safety goggles. |
| Protective equipment | Wear protective clothing. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Description | Liquid. |
| Colour | Colourless. |
| Odour | Slight. |
| pH | 10 |
| Boiling point | 103°C |
| Relative density | 1.087-1.093 g/cm ³ @ 20 Deg. C. |
| Water solubility | miscible in water. |
| Viscosity | 1.4 mPas @ 25 Deg. C. |

10. STABILITY AND REACTIVITY

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|---|------------------------------------|
| Stability | Stable under normal conditions. |
| Materials to avoid | Strong oxidising agents. Nitrites. |
| Hazardous decomposition products | Ammonia. |

11. TOXICOLOGICAL INFORMATION

Toxicological information

BlueCat AdBlue. Oral Rat LD50 = 15000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

BlueCat AdBlue. Daphnia LC50/24h = 1000 mg/l
Fish LC50/96h = >6810 mg/l

Degradability Do not allow uncontrolled discharge of the product into the environment. Biodegradable

BlueCat AdBlue.

Revision 0
Revision date

13. DISPOSAL CONSIDERATIONS

General information Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

Further information The product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

Risk phrases NSH - No Significant Hazard.

16. OTHER INFORMATION

Further information The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.

Brockley Group Limited are not responsible for any damage or injury resulting from abnormal use. or from any failure to follow appropriate practices or from hazards inherent in the nature of the product.