

# Emissco

## AdBlue®

### Material Safety Data Sheet





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Version : 6.0

## SAFETY DATA SHEET: AdBlue

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

#### 1.1 Product identifier

Product name : AdBlue - 5L, 10L, 20L, 210L, 1000L (IBC)  
Product code : SPB007  
Product type : Liquid

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

Notes : The safety data sheet and any attached exposure scenario are compiled in accordance with the REACH regulation and in no way reflects the specification, purity or quality standards required for specific applications and use of the product identified in section 1.1.

#### Identified uses

Industrial distribution.  
Industrial Use for flue gas NOx and SOx reduction.  
Industrial USE as a laboratory/research chemical.  
Professional USE as reactive agent/processing aid and for general chemical applications.  
Professional USE as a laboratory/research chemical.  
Consumer USE as part of specialist products.

Uses advised against : None identified.

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

Address : Emissco Ltd  
Street : New Haden Road, Brookhouses Industrial Estate, Cheadle  
Postal code : ST10 1UF  
City : Staffordshire  
Country : United Kingdom  
Telephone number : +44 (0) 1538 752561 (Available 9am - 5pm)  
Fax no. : N/A  
e-mail address of person responsible for this SDS : info@emissco.co.uk

#### 1.4 Emergency telephone number

**National advisory body/Poison Center** : Not available.

#### **Supplier**

**Emergency telephone number (with hours of operation)** : National Chemical Emergency Centre  
+44 (0) 1865 407333 (24h)

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture.

**Product definition** : Mixture

#### **Classification according to UK CLP/GHS**

**Classification** : Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

### 2.2 Label elements

**Signal word** : No signal word.

**Hazard statements** : Not applicable.

**Precautionary statements** : Not applicable.

**EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### **Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

**Additional information** : None.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Remarks : Aqueous solution

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention if you feel unwell.
- Skin contact** : Wash with soap and water. Get medical attention if irritation develops.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if adverse health effects persist or are severe.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

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

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None identified.

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

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** : Decomposition products may include the following materials: nitrogen oxides, ammonia, Avoid breathing dusts, vapors or fumes from burning materials., In case of inhalation of decomposition products in a fire, symptoms may be delayed.

### **5.3 Advice for firefighters**

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## **SECTION 6: Accidental release measures**

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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with

non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.

### 7.3 Specific end use(s)

- Recommendations** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

- Remark** : No exposure limit value known.
- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other

control measures and/or the necessity to use respiratory protective equipment.  
Reference should be made to appropriate monitoring standards.  
Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

No DNELs/DMELs available.

### **PNECs**

No PNECs available.

## **8.2 Exposure controls**

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### **Individual protection measures**

**Hygiene measures** : A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

### **Skin protection**

**Hand protection** : 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. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the

requirements of environmental protection legislation.  
In some cases, fume scrubbers, filters or engineering  
modifications to the process equipment will be necessary  
to reduce emissions to acceptable levels.

Personal protective equipment :  
(Pictograms)



## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Liquid  
**Color** : Colorless.,  
**Odor** : slight, ammoniacal  
**Melting point/freezing point** : -10.5 °C  
**Initial boiling point and boiling range** : 100 °C

**Flammability** : Non-flammable.

**Upper/lower flammability or explosive limits** : **Lower:** Not applicable.  
**Upper:** Not applicable.

**Flash point** : Not applicable.

**Auto-ignition temperature** : Not applicable.

**Decomposition temperature** : Not applicable.

**pH** : 9 - 10

**Viscosity** : **Dynamic:** 1.4 mPa.s @ 20 °C  
**Kinematic:** 1.287 mm<sup>2</sup>/s @ 20 °C (68 °F)

**Water solubility** : > 100 g/l

**Partition coefficient: n-octanol/water** : Not applicable.

**Vapor pressure** :

Ingredient name	Vapor pressure
water	30.94 hPa (@ 25 °C)

**Density** : 1.088 g/cm<sup>3</sup>

**Relative vapour density** : < 1 [Air = 1]

**Explosive properties** : Non-explosive.

**Oxidizing properties** : None

#### Particle characteristics

**Median particle size** : Not applicable.



## **9.2 Other information**

No additional information.

# **SECTION 10: Stability and reactivity**

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : Avoid contamination by any source including metals, dust and organic materials.
- 10.5 Incompatible materials** : Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
- Remark** : Reactive or incompatible with the following materials:  
Oxidizing agents  
acids  
alkalis  
Nitrites and nitrates
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

## **11.1 Information on toxicological effects**

### **Acute toxicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

### **Acute toxicity estimates**

N/A

### **Irritation/Corrosion**

#### **Conclusion/Summary**

- Skin** : No known significant effects or critical hazards.  
**Eyes** : No known significant effects or critical hazards.  
**Respiratory** : No known significant effects or critical hazards.

### **Sensitization**

#### **Conclusion/Summary**

- Skin** : No known significant effects or critical hazards.  
**Respiratory** : No known significant effects or critical hazards.

### **Mutagenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

### **Carcinogenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

### **Reproductive toxicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Information on the likely routes of exposure** : Not available.

### **Potential acute health effects**

**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Ingestion** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Eye contact** : No known significant effects or critical hazards.

### **Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation** : No specific data.

**Ingestion** : No specific data.

**Skin contact** : No specific data.

**Eye contact** : No specific data.

### **Delayed and immediate effects and also chronic effects from short and long term exposure**

#### **Short term exposure**

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

#### **Long term exposure**

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

### **Potential chronic health effects**

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

**Other effects** : No known significant effects or critical hazards.

### **Toxicokinetics**

**Absorption** : Rapidly absorbed.

**Distribution** :  
Not metabolized within liver tissues before entering the

systemic circulation.

- Metabolism** : Metabolite is not known to be toxic.
- Elimination** : The chemical and its metabolites are fully excreted and do not accumulate within the body.
- Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

- Conclusion/Summary** : No known significant effects or critical hazards.

### 12.2 Persistence and degradability

- Conclusion/Summary** : No known significant effects or critical hazards.

### 12.3 Bioaccumulative potential

- Conclusion/Summary** : No known significant effects or critical hazards.

### 12.4 Mobility in soil

- Soil/water partition coefficient (KOC)** : Not available.
- Mobility** : This product may move with surface or groundwater flows because its water solubility is: high

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

- 12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### **Product**

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

### Waste catalogue

Waste code	Waste designation
06 10 99	wastes not otherwise specified

### Packaging

#### Methods of disposal

- : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### Special precautions

- : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	Not applicable.	Not applicable.	Not applicable.	Not applicable.
<b>14.3 Transport hazard class(es)</b>	Not applicable.	Not applicable.	Not applicable.	Not applicable.
<b>14.4 Packing group</b>	Not applicable.	Not applicable.	Not applicable.	Not applicable.
<b>14.5. Environmental hazards</b>	No.	No.	No.	No.

#### 14.6 Special precautions for user

- : Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Transport in bulk according to IMO instruments

- Proper shipping name** : Urea solution  
**Remarks** : **Liquid bulk cargoes**  
 Ship type: 3  
 Pollution category: Z

## SECTION 15: Regulatory information

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

#### UK (GB) /REACH

##### Annex XIV - List of substances subject to authorization

##### Annex XIV

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Ozone depleting substances**

None of the components are listed.

**Prior Informed Consent (PIC)**

None of the components are listed.

**Persistent Organic Pollutants**

None of the components are listed.

**EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**Other regulations** : This product is not subject to The Poison Act 1972 and the following amendments, but all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

**National regulations**

**Biocidal products regulation** : Not applicable.

**EU regulations**

**Notes** : To our knowledge no other country or state specific regulations are applicable.

**15.2 Chemical Safety Assessment** : Complete.

## SECTION 16: Other information

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments  
DNEL = Derived No Effect Level  
DMEL = Derived Minimal Effect Level  
EUH statement = GB CLP-specific Hazard statement  
N/A = Not available  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
SGG = Segregation Group  
PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative  
bw = Body weight

**Key data sources** : EU REACH ECHA/IUCLID5 CSR.  
National Institute for Occupational Safety and Health, U.S.  
Dept. of Health, Education, and Welfare, Reports and  
Memoranda Registry of Toxic Effects of Chemical  
Substances.  
Sphera Solutions Inc., 4777 Levy Street, St Laurent,  
Quebec HAR 2P9, Canada.

**Procedure used to derive the classification**

Not classified.

**Full text of abbreviated H statements**

Not applicable.

**Full text of classifications**

Not applicable.

**Revision comments** : The safety data sheet has been revised according to UK  
REACH Regulation SI 2019/758.

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|| Indicates information that has changed from previously issued version.

**Notice to reader**

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.

# Emissco

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