



## AdBlue

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### **3.2. Mixtures**

Composition comments      This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.

### SECTION 4: FIRST AID MEASURES

#### **4.1. Description of first aid measures**

General information	Get medical attention if any discomfort continues. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Effects may be delayed. Keep affected person under observation.
Inhalation	Unlikely route of exposure as the product does not contain volatile substances.
Ingestion	Get medical attention if any discomfort continues. Rinse mouth thoroughly with water. Give plenty of water to drink.
Skin contact	Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Do not rub eye. Get medical attention if any discomfort continues.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Effects may be delayed. Keep affected person under observation.
Inhalation	No specific symptoms known.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.

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

Notes for the doctor      No specific recommendations. If in doubt, get medical attention promptly.

### SECTION 5: FIREFIGHTING MEASURES

#### **5.1. Extinguishing media**

Suitable extinguishing media	Extinguish with the following media: Foam, carbon dioxide or dry powder. Water. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

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

Specific hazards	Not relevant. No unusual fire or explosion hazards noted.
Hazardous combustion products	No known hazardous decomposition products.

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### **5.3. Advice for firefighters**

Protective actions during firefighting	Not relevant.
Special protective equipment for firefighters	Leave danger zone immediately.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Personal precautions	For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.
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### **6.2. Environmental precautions**

Environmental precautions	Avoid discharge to the aquatic environment.
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### **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up	No specific clean-up procedure recommended.
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### **6.4. Reference to other sections**

Reference to other sections	Collect and dispose of spillage as indicated in Section 13. For personal protection, see Section 8.
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## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Usage precautions	Read and follow manufacturer's recommendations. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid contact with eyes. Avoid eating, drinking and smoking when using the product.
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### **7.2. Conditions for safe storage, including any incompatibilities**

Storage precautions	Keep containers upright. Store in tightly-closed, original container.
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### **7.3. Specific end use(s)**

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

Occupational exposure limits

No exposure limits known for ingredient(s).

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

### **8.2. Exposure controls**

Protective equipment



Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

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Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Provide eyewash station and safety shower. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
Respiratory protection	Respiratory protection not required.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Clear liquid.
Colour	Colourless.
Odour	No characteristic odour.
Odour threshold	Not determined.
Melting point	135-137°C
Evaporation rate	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.11 @ 20°C
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	1.4 mPa s @ 25°C
Oxidising properties	Not available.

#### **9.2. Other information**

Other information	None.
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### SECTION 10: STABILITY AND REACTIVITY

#### **10.1. Reactivity**

Reactivity	There are no known reactivity hazards associated with this product.
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#### **10.2. Chemical stability**

Stability	No particular stability concerns.
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#### **10.3. Possibility of hazardous reactions**

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Possibility of hazardous reactions      Not applicable.

### **10.4. Conditions to avoid**

Conditions to avoid      Not relevant.

### **10.5. Incompatible materials**

Materials to avoid      No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

Hazardous decomposition products      Does not decompose when used and stored as recommended.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

Toxicological effects      No information available.

Acute and chronic health hazards      This chemical can be hazardous when inhaled and/or touched.

## **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity      The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

### **12.1. Toxicity**

Acute toxicity - fish      LC<sub>50</sub>, 96 hours: 9100 mg/l, Fish  
Acute toxicity - aquatic invertebrates      Not available.

### **12.2. Persistence and degradability**

Persistence and degradability      There are no data on the degradability of this product.

### **12.3. Bioaccumulative potential**

Bioaccumulative potential      No data available on bioaccumulation.

Partition coefficient      Not determined.

### **12.4. Mobility in soil**

Adsorption/desorption coefficient      Not available.

### **12.5. Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment      This substance is not classified as PBT or vPvB according to current EU criteria.

### **12.6. Other adverse effects**

Other adverse effects      Not available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

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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	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations. Following dilution, discharge to the sewer with plenty of water may be permitted.

### SECTION 14: TRANSPORT INFORMATION

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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#### **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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: REGULATORY INFORMATION

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

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
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#### **15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

### SECTION 16: OTHER INFORMATION

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	12/04/21
Revision	2
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