

**SAFETY DATA SHEET**

according to Regulation (EU) 2015/830

ISSUE DATE: 09.02.2016  
REVISION DATE: 07.09.2020  
SUPERSEDES DATE: 08.07.2020  
**VERSION: 2.1****1. SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name	AdBlue®
Product code	Ford Internal Ref.: 196734
SDS Number	6419
Product use	Public use

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

Relevant identified uses	Fuel additives
Uses advised against	None known

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

Supplier	Distributor
Ford-Werke GmbH	Ford Motor Company Ltd.
Edsel-Ford-Str. 2-14	Parts Distribution Centre
50769 Cologne	Royal Oak Way South
Germany	NN11 8NT Daventry, Northants
+49 221 90-33333	United Kingdom
sdseu@ford.com	+44 1327 305 198

**1.4. Emergency telephone number**

+49 (0) 6132-84463 (GBK GmbH – 24/7)

**2. SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**2.2. Label elements**

This mixture does not meet the criteria for labelling according to Regulation (EC) 1272/2008 as amended.

**2.3. Other hazards**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

**3. SECTION 3: Composition/information on ingredients****3.2. Mixtures**

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II.

**4. SECTION 4: First aid measures****4.1. Description of first aid measures**

General information	Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
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<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
<b>Skin contact:</b>	Wash skin with soap and water. Wash contaminated clothing before reuse.
<b>Eyes contact</b>	Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Rinse mouth out with water.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms/effects after ingestion</b>	May cause discomfort if swallowed. Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
Provide general supportive measures and treat symptomatically.	
<b>5. SECTION 5: Firefighting measures</b>	
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water spray. Dry powder. Foam. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use a water jet since it may cause the fire to spread.
<b>5.2. Special hazards arising from the substance or mixture</b>	
<b>Fire hazard</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	During fire, gases hazardous to health may be formed. Hydrogen cyanide. ammonia. Nitrogen oxides. Carbon oxides (CO, CO <sub>2</sub> ).
<b>5.3. Advice for firefighters</b>	
<b>Precautionary measures fire</b>	In case of fire: evacuate area. Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Firefighting instructions</b>	Move containers from fire area if it can be done without personal risk. Fight fire remotely due to the risk of explosion.
<b>Protection during firefighting</b>	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
<b>Other information</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>6. SECTION 6: Accidental release measures</b>	
<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>General measures</b>	Keep unnecessary personnel away.
<b>For non-emergency personnel</b>	
<b>Protective equipment</b>	Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.
<b>Emergency procedures</b>	Keep unnecessary personnel away. Ventilate spillage area. Avoid contact with skin and eyes. Do not touch or walk on the spilled product.
<b>For emergency responders</b>	
<b>Protective equipment</b>	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
<b>6.2. Environmental precautions</b>	
Avoid release to the environment.	
<b>6.3. Methods and material for containment and cleaning up</b>	
<b>For containment</b>	Prevent product from entering drains. Dispose of waste in accordance with environmental legislation.

**Methods for cleaning up** Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

**Other information** Never return spills in original containers for re-use. Environmental manager must be informed of all major releases.

**6.4. Reference to other sections** For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

## 7. SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Additional hazards when processed** Avoid contact with skin and eyes.

**Precautions for safe handling** Ensure good ventilation of the work station. Wear personal protective equipment.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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

**Storage conditions** Keep cool. Store in a dry place. Store in a closed container. Protect from sunlight.

**Incompatible products** Oxidizing agent.

**Incompatible materials** Store away from incompatible materials (see Section 10 of the SDS).

**Storage temperature** -10 – 25 °C

### 7.3. Specific end use(s)

Fuel additives.

## 8. SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Contains no substances with occupational exposure limits.

**DNEL: Derived no effect level**

No data available

**PNEC: Predicted no effect concentration**

No data available

### 8.2. Exposure controls

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level

**Materials for protective clothing** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment

**Individual protection measures, such as personal protective equipment (PPE)**

**Eye protection** Safety glasses. EN 166. Wear security glasses which protect from splashes

**Skin protection**

**Hand protection** Protective gloves. EN 374. The recommendation is only valid for the supplied product and the stated application. Special working conditions, like heat or mechanical strain, which deviate from the test conditions, can reduce the protective effect provided by the recommended glove

Material	Permeation	Thickness (mm)	Comments
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Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.
In case of splash contact: Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.
<b>Other protective measures</b>		No additional information available.	
<b>Respiratory protection</b>		No respiratory protection needed under normal use conditions.	
<b>Skin and body protection</b>		Wear suitable protective clothing, Long sleeved protective clothing	
<b>Thermal hazard protection</b>		Wear appropriate thermal protective clothing, when necessary.	
<b>Environmental exposure controls</b>		Avoid release to the environment.	

## 9. SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid
<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	No data available
<b>pH</b>	< 10 @ 20°C
<b>Relative evaporation rate (butylacetate=1)</b>	No data available
<b>Melting point</b>	≈ -11,5 °C
<b>Freezing point</b>	No data available
<b>Boiling point</b>	106 – 110 °C
<b>Flash point</b>	Not applicable
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Vapour pressure</b>	23 hPa @ 20°C
<b>Relative vapour density at 20 °C</b>	No data available
<b>Relative density</b>	No data available
<b>Density</b>	≈ 1.09 g/cm <sup>3</sup> @ 20 °C
<b>Solubility</b>	completely miscible.
<b>Log Pow</b>	-2.59 Urea
<b>Viscosity, kinematic</b>	No data available
<b>Viscosity, dynamic</b>	≈ 1 mPa·s @ 20°C
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Non oxidizing.
<b>Explosive limits</b>	No data available

### 9.2. Other information

<b>VOC (EU)</b>	Not applicable
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## 10. SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reactions known under normal conditions of use.
<b>10.4. Conditions to avoid</b>	Contact with incompatible materials.

- 10.5. Incompatible materials** Strong oxidizing agents. Strong bases.
- 10.6. Hazardous decomposition products** Ammonia. Nitrogen oxides. Hydrogen cyanide.

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met
<b>Potential adverse human health effects and symptoms</b>	Information on Effects: refer to section 4.

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

<b>Ecology - general</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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### 12.2. Persistence and degradability

No additional information available.

### 12.3. Bioaccumulative potential

AdBlue®

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<b>Log Pow</b>	-2.59 Urea
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### 12.4. Mobility in soil

No additional information available.

### 12.5. Results of PBT and vPvB assessment

AdBlue®

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

### 12.6. Other adverse effects

<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.
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## 13. SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Regional legislation (waste)</b>	Disposal must be done according to official regulations.
<b>Waste treatment methods</b>	Dispose of contents/container in accordance with licensed collector's sorting instructions.
<b>Sewage disposal recommendations</b>	Avoid discharge into drains, water courses or onto the ground.

<b>Product/Packaging disposal recommendations</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>European List of Waste (LoW) code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
06 10 99	wastes not otherwise specified
15 01 10*	packaging containing residues of or contaminated by dangerous substances

#### 14. SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN  
Not regulated for transport

#### 15. SECTION 15: Regulatory information

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

###### EU-Regulations

Contains no REACH substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

**VOC (EU)** Not applicable

**Seveso Information** Not applicable

###### National regulations

No additional information available.

##### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### 16. SECTION 16: Other information

##### Indication of changes

Section 1 - Section 16.

##### Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Occupational exposure limit value
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Federal Institute for Materials Research and Testing, Germany
BAT	Maximum permissible concentration of biological working substances.
BCF	Bio-concentration factor.
BLV	Biological limit values
BLV	Biological limit values (BGW, Austria)
BMGV	Biological Monitoring Guidance Value (EH40,UK).
BOD5	Biochemical oxygen demand within 5 days
BOD	Biochemical oxygen demand
bw	Body weight.
calcd.	Calculated
CAS	Chemical Abstract Service.
CEN	European Committee for Standardization

CESIO	European Committee on Organic Surfactants and their Intermediates.
COD	Chemical oxygen demand
CLP	Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR	Carcinogenic, Mutagenic or Reproduction Toxic Substances
CSA	Chemical safety assessment
CSR	Chemical Safety Report.
DMEL	Derived Minimum Effect Level.
DNEL	Derived no effect level
EAC	European waste catalogue
EC	European community
EC50	Effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EN	European norm.
ERC	ERC (Environmental Release category)
EU	European Union
GLP	Good Laboratory Practice.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
GW/VL	Occupational exposure limit value.
GW-kw/VL-cd	Occupational exposure limit value - short term.
GW-M/VL-M	Occupational exposure limit value – "Ceiling".
IATA	International Air Transport Association
IBC code	International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk).
ICAO	International Civil Aviation Organization
IC50	Inhibition Concentration 50%.
IECSC	Inventory of Existing Chemical Substances in China.
IMDG	International Maritime Dangerous Goods
ISO	International Standards Organization.
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal Concentration 50%.
LCLo	Lowest published lethal concentration.
LD50	Lethal Dose 50%.
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest observable effect concentration.
LOEL	Lowest observable effect level.
LQ	Limited quantities
TRK-Kzw	Threshold limit value - Short-term exposure limit / Technical reference concentration - short-time value, Austria.
MAK-Mow	Maximum allowable workplace concentration – instantaneous value, Austria.
MAK-Tmw, TRK-Tmw	Maximum allowable workplace concentration – daily mean value / Technical standard concentration – daily mean value, Austria.
MAK	Threshold limit values Germany.
MARPOL	International Convention for the Prevention of Pollution from Ships.
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level

NOEC	No-Observed Effect Concentration
NOEL	no-observed-effect level
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limits
PBT	Persistent Bioaccumulative Toxic
PC (Chemical product category)	PC (Chemical product category)
PNEC	Predicted No-Effect Concentration
POCP	Photochemical ozone creation potential.
POP	Persistent Organic Pollutants
PPE	Personal protective equipment
Process category	Process category
REACH	Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL	Specific concentration limit.
STEL	Short-term Exposure Limit
STP	Sewage treatment plant
SU (Sector of use)	SU (Sector of use)
SVHC	Substance of Very High Concern.
TLV	Threshold Limit Value
TRGS	Technical Rules for Hazardous Substances (German Standard).
TWA	Time Weighted Average
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
VbF	Ordinance on Flammable Liquids, Austria
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL-TWA	Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period).
WEL-STEL	Workplace Exposure Limit-Short term exposure limit (15-minute reference period).
<b>Data sources</b>	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006..

**Classification according to Regulation (EC) No. 1272/2008**

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Not classified

*The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.*

Attachment to the Safety Data Sheet



**Product Name:** AdBlue®

**Ford Int. Ref. No.:** 196734

REVISION DATE: 07.09.2020

**Involved Products:**

	<b>Finiscode</b>	<b>Part number</b>	<b>Container Size:</b>
.	1 2 138 302	HAMJ M99C130 AA	5 l
.	2 2 513 124	HAMJ M99C130 AB	5 l
.	3 2 138 306	HAMJ M99C130 BA	10 l
.	4 2 513 454	HAMJ M99C130 BB	10 l
.	5 2 138 310	HAMJ M99C130 CA	210 l
.	6 2 513 456	HAMJ M99C130 CB	210 l