

## Safety Data Sheet

# AdBlue

Revision date: 24/10/2022 Version number: 5.0

## SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

## ADBLUE / BULK

Version 5.0 Print Date 09.11.2023

Revision date / valid from 24.10.2022

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

#### 1.1. Product identifier

Trade name : ADBLUE / BULK

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

Use of the : Reduction of nitrogen oxides from exhaust gases

Substance/Mixture

Uses advised against : At this moment we have not identified any uses advised

against

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

Company : Biofuel Express AB

Mariebergsgatan 6 SE-261 51 Landskrona

Telephone : +46 (0) 418-495 120

E-mail address : mail@biofuel-express.com

#### 1.4. Emergency telephone number

Emergency telephone : In case of personal injury call:

number Denmark: +45 82 12 12 12 Giftlinien, Bispebjerg Hospital

Finland: +358 9 471 977 Finnish Poison Information Center (24

h/day)

Norway: +47 22 59 13 00 Giftinformasjonen (døgnåpent) Sweden: +46-8-33 70 43 Giftinformationscentralen (24 hour

service)

Outside these countries: Please call your local emergency

services

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

#### Most important adverse effects

Human Health : Splash in the eyes may cause discomfort.

Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhoea.

Physical and chemical

hazards

In case of fire hazardous decomposition products may be

produced such as:, ammonia, nitrogen oxides

Potential environmental

effects

According to available data, this product is not harmful to the

environment.

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

## Hazardous components which must be listed on the label:

Urea

#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Classification (REGULATION (EC) No 1272/2008)			
Hazardous components	Amount [%]	Hazard class / Hazard category	Hazard statements
ammonia (No hazardous ingredients)			
Index-No. : 007-001-01-2	>= 0,1 - <= 0,2	Skin Corr.1B	H314

CAS-No. : 1336-21-6 EC-No. : 215-647-6

EU REACH- : 01-2119488876-14-xxxx

Reg. No.

 Eye Dam.1
 H318

 STOT SE3
 H335

 Aquatic Acute1
 H400

 Aquatic Chronic2
 H411

M-Factor (Acute aquatic

toxicity): 1

specific concentration limit

STOT SE 3; H335

>= 5 %

Note B

For the full text of the H-Statements mentioned in this Section, see Section 16. For the full text of the Notes mentioned in this Section, see Section 16.

#### Non-hazardous component

Chemical name	Identification Number	Amount [%]
Urea	CAS-No. : 57-13-6 EC-No. 200-315-5 REACH-Reg. No. 01-2119463277-33-xxxx	>= 30 - <= 35

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice : Take off all contaminated clothing immediately.

If inhaled : Move to fresh air. If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water. If skin

irritation persists, call a physician. If symptoms persist, call a

physician.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If

symptoms persist, call a physician.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. If

symptoms persist, call a physician.

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

Symptoms : See Section 11 for more detailed information on health effects

and symptoms.

Effects : See Section 11 for more detailed information on health effects

and symptoms.

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

Treatment : Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing

media

Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

High volume water jet

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

Specific hazards during

firefighting

Hazardous combustion

products

Heating or fire can release toxic gas.

Carbon monoxide, Carbon dioxide (CO2), ammonia, Nitrogen

oxides (NOx), Under certain fire conditions, traces of other

toxic products cannot be excluded.

## 5.3. Advice for firefighters

Special protective equipment for firefighters

Further advice

In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

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

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

Personal precautions : Use personal protective equipment. Keep away unprotected

persons. Ensure adequate ventilation. Avoid contact with skin,

eyes and clothing.

#### 6.2. **Environmental precautions**

Environmental precautions

: Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

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

containment and cleaning

up

Methods and materials for : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Treat recovered material as described in the section "Disposal considerations".

Further information : Treat recovered material as described in the section "Disposal

considerations".

#### Reference to other sections 6.4.

See Section 1 for emergency contact information.

See Section 8 for information on personal protective equipment.

See Section 13 for waste treatment information.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

: Handle in accordance with good industrial hygiene and safety Advice on safe handling

practice. Avoid contact with skin and eyes.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking,

> eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off

all contaminated clothing immediately.

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

Requirements for storage : Store in original container.

areas and containers

Advice on protection

against fire and explosion

: Normal measures for preventive fire protection.

Further information on

storage conditions

: Keep tightly closed in a dry and cool place.

Advice on common

storage

: Keep away from food, drink and animal feedingstuffs.

#### 7.3. Specific end use(s)

Specific use(s) : No information available.

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

## 8.1. Control parameters

## Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

Workers, Long-term - systemic effects, Skin contact : 580 mg/kg

**DNEL** 

Workers, Acute - systemic effects, Skin contact : 580 mg/kg

DNEL

Workers, Long-term - systemic effects, Inhalation : 292 mg/m3

DNEL

Workers, Acute - systemic effects, Inhalation : 292 mg/m3

DNEL

Consumers, Long-term - systemic effects, Skin contact : 580 mg/kg

**DNEL** 

Consumers, Acute - systemic effects, Skin contact : 580 mg/kg

**DNEL** 

Consumers, Long-term - systemic effects, Inhalation : 125 mg/m3

**DNEL** 

Consumers, Acute - systemic effects, Inhalation : 125 mg/m3

DNEL

Consumers, Long-term - systemic effects, Ingestion : 42 mg/kg

**DNEL** 

Consumers, Acute - systemic effects, Ingestion : 42 mg/kg

## **Predicted No Effect Concentration (PNEC)**

Fresh water : 0,047 mg/l

Component: ammonia CAS-No. 1336-21-6

## Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL

Workers, Acute - local effects, Inhalation : 36 mg/m3

DNEL

Workers, Long-term - local effects, Inhalation : 14 mg/m3

DNEL

Workers, Acute - systemic effects, Inhalation : 47,6 mg/m3

**DNEL** 

Workers, Long-term - systemic effects, Inhalation : 47,6 mg/m3

**DNEL** 

Workers, Acute - systemic effects, Skin contact : 6,8 mg/kg bw/day

**DNEL** 

Workers, Long-term - systemic effects, Skin contact : 6,8 mg/kg bw/day

**DNEL** 

Consumers, Acute - local effects, Inhalation : 7,2 mg/m3

**DNEL** 

Consumers, Long-term - local effects, Inhalation : 2,8 mg/m3

**DNEL** 

Consumers, Acute - systemic effects, Inhalation : 23,8 mg/m3

**DNEL** 

Consumers, Long-term - systemic effects, Inhalation : 23,8 mg/m3

**DNEL** 

Consumers, Acute - systemic effects, Skin contact : 68 mg/kg bw/day

**DNEL** 

Consumers, Long-term - systemic effects, Skin contact : 68 mg/kg bw/day

DNEL

Consumers, Acute - systemic effects, Ingestion : 6,8 mg/kg bw/day

**DNEL** 

Consumers, Long-term - systemic effects, Ingestion : 6,8 mg/kg bw/day

## **Predicted No Effect Concentration (PNEC)**

Fresh water : 0,0011 mg/l

Marine water : 0,0011 mg/l

Intermittent releases : 0,0068 mg/l

## **Other Occupational Exposure Limit Values**

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL): 50 ppm, 36 mg/m3

Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA): 20 ppm, 14 mg/m3

Indicative

Sweden. Occupational Exposure Limit Values, as amended, Time Weighted Average (TWA): 20 ppm, 14 mg/m3

Sweden. Occupational Exposure Limit Values, as amended, Ceiling Limit Value: 50 ppm, 36 mg/m3

## 8.2. Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation.

Ensure that eyewash stations and safety showers are close to the workstation location. **Personal protective equipment** 

Respiratory protection

Advice : In case of insufficient ventilation, wear suitable respiratory

equipment.

Hand protection

Advice : Protective gloves complying with EN 374.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion,

and the contact time.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from

manufacturer to manufacturer.

Protective gloves should be replaced at first signs of wear.

Material : butyl-rubber
Break through time : >= 8 h
Glove thickness : 0,5 mm

Material : natural rubber

Break through time : >= 8 h Glove thickness : 0,5 mm

Material : Nitrile rubber
Break through time : >= 8 h
Glove thickness : 0,35 mm

Eye protection

Advice : Safety glasses

Skin and body protection

Advice : Wear appropriate chemical resistant clothing and boots.

**Environmental exposure controls** 

General advice : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Form : Liquid

Physical state : liquid

Colour : colourless

Odour : faint, ammoniacal

Odour Threshold : No data available

Melting point/range : ca. -11,5 °C

Boiling point/boiling range : ca. 100 °C

Flammability : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point : Not applicable

Auto-ignition temperature : not determined

Decomposition temperature : No data available

Self-Accelerating

decomposition temperature

(SADT)

No data available

pH : 9 - 10

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Flow time : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Dissolution Rate : No data available

Partition coefficient: n-

octanol/water

: No data available

Dispersion Stability : No data available

Vapour pressure : ca. 23 hPa (20 °C)

Relative density : No data available

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Density : ca. 1,1 g/cm3 (20 °C)

Bulk density : No data available

Relative vapour density : No data available

Particle characteristics No data available

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

Advice : No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Conditions to avoid : Avoid high temperatures.

10.5. Incompatible materials

Materials to avoid : Oxidizing agents, Acids, alkalis, nitrites, nitrates

10.6. Hazardous decomposition products

Hazardous decomposition : Fire may cause evolution of: ammonia, Carbon dioxide (CO2),

products

Carbon monoxide, Nitrogen oxides (NOx)

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

	Acute toxicity
	Oral
Acute toxicity estimate	: > 2000 mg/kg ) (Calculation method)
	This material may be a slight health hazard if ingested in large quantities.

BLUE / BULK		
	No data available	
	Dermal	
	Please find this information in the listing	of the
	component/components below in this se	ection.
	Skin	
Result	: No skin irritation	
Result	: No skin irritation  Eyes	
	Lyes	
Result	: Splash in the eyes may cause discomfo	rt.
	Sensitisation	
Result	: No sensitizing effect known.	
	CMR effects	
	CMR Properties	
Carcinogenicity	: It is not considered carcinogenic.	
Mutagenicity	: It is not considered mutagenic.	
Reproductive toxicity	: It is not considered toxic for reproduction	າ.
	Specific Target Organ Toxicity	
	Single exposure	
Remarks	: The substance or mixture is not classifie	ed as specific target organ
	toxicant, single exposure.  Repeated exposure	
Remarks	. The substance or mixture is not electifie	nd as specific target organ
Remarks	<ul> <li>The substance or mixture is not classifie toxicant, repeated exposure.</li> </ul>	ed as specific target organ
	Other toxic properties	
	Repeated dose toxicity	
	No data available	
	Aspiration hazard	
	No aspiration toxicity classification,	
Component:	Urea	CAS-No. 57-13-
	Acute toxicity	
	Oral	
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LD50 : 14300 mg/kg (Rat)

## **Dermal**

Study scientifically not justified.

## 11.2. Information on other hazards

Data for the produc	et	
		Endocrine disrupting properties
Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 12: Ecological information

## 12.1. Toxicity

Component:	Urea	CAS-No. 57-13-6
	Acute toxicity	
	Fish	
LC50	: > 6.810 mg/l (Leuciscus idus (Golden orfe	e)) (DIN 38412)
	Toxicity to daphnia and other aquatic invertebr	rates
LC50	: > 10.000 mg/l (Daphnia magna; 48 h)	
	algae	
	: > 10000 mg/l (Scenedesmus quadricauda	a (Green algae); 8 d)
	Bacteria	
	: > 10000 mg/l (Pseudomonas putida; 16 h	n)

## 12.2. Persistence and degradability

Component:	Urea	CAS-No. 57-13-6
	Persistence and degradability	
	Persistence	
Result	: (Related to: Water) The product is	water soluble.
Biodegradability		
Result	: 96 % (Exposure Time: 16 d)(OEC	D Test Guideline 302B)Readily

## 12.3. Bioaccumulative potential

Component:	Urea	CAS-No. 57-13-6
	Bioaccumulation	

Result : log Kow -1,59 (20 °C)

Bioaccumulation is not expected.

biodegradable.

## 12.4. Mobility in soil

Component:	Urea	CAS-No. 57-13-6
	Mobility	

: Not expected to adsorb on soil.

## 12.5. Results of PBT and vPvB assessment

## Data for the product Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

## 12.6. Endocrine disrupting properties

## Data for the product

Endocrine disrupting potential

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7. Other adverse effects

## Data for the product

#### Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Packagings that cannot be cleaned are to be disposed of in

the same manner as the product.

European Waste Catalogue Number No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation

with the regional waste disposer.

## **SECTION 14: Transport information**

Not dangerous goods for ADR, RID, IMDG and IATA.

## 14.1. UN number

Not applicable.

## 14.2. UN proper shipping name

Not applicable.

## 14.3. Transport hazard class(es)

Not applicable.

## 14.4. Packaging group

Not applicable.

## 14.5. Environmental hazards

Not applicable.

## 14.6. Special precautions for user

Not applicable.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

Component: Urea CAS-No. 57-13-6

EU. Regulation EC No.

689/2008

; The substance/mixture does not fall under this legislation.

Marketing and Use Restrictions (Regulation

1907/2006/EC)

EU. REACH, Annex XVII, : ; The substance/mixture does not fall under this legislation.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances,

Annex I

; The substance/mixture does not fall under this legislation.

ΕN

## **Notification status**

#### Urea:

Jrea:		
Regulatory List	Notification	Notification number
EINECS	YES	200-315-5
DSL	YES	
KECI (KR)	YES	KE-35144
ENCS (JP)	YES	(2)-1732
JEX (JP)	YES	(2)-1732
ISHL (JP)	YES	(2)-1732
IECSC	YES	
ONT INV	YES	
INSQ	YES	
TCSI	YES	
PICCS (PH)	YES	
TSCA	YES	
VN INVL	YES	
TH INV	YES	3102.10
TH INV	YES	55-1-04503
PHARM (JP)	YES	
AU AIICL	YES	
NZIOC	YES	
INZIOO	120	

## 15.2. Chemical safety assessment

No data available

## **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

#### Full text of the Notes referred to under section 3.

Note B Some substances (acids, bases, etc.) are placed on the market in

aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: "nitric acid ...%". In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage

concentration is calculated on a weight/weight basis.

## **Abbreviations and Acronyms**

AU AIICL Australia. Industrial Chemicals Act (AIIC) List

**BCF** bioconcentration factor

BOD biochemical oxygen demand
CAS Chemical Abstracts Service

**CLP** Classification, Labelling and Packaging

**CMR** carcinogenic, mutagenic or toxic to reproduction

COD chemical oxygen demand DNEL derived no-effect level

DSL Canada. Environmental Protection Act, Domestic Substances List EINECS European Inventory of Existing Commercial Chemical Substances

**ELINCS** European List of Notified Chemical Substances

ENCS (JP) Japan. Kashin-Hou Law List

Globally Harmonized System of Classification and Labelling of

Chemicals

IECSC China. Inventory of Existing Chemical Substances
INSQ Mexico. National Inventory of Chemical Substances

ISHL (JP) Japan. Inventory of Industrial Safety & Health

**KECI (KR)** Korea. Existing Chemicals Inventory

**LC50** median lethal concentration

LOAEC lowest observed adverse effect concentration

LOAEL lowest observed adverse effect level

**LOEL** lowest observed effect level

NDSL Canada. Environmental Protection Act. Non-Domestic Substances

List

**NLP** no-longer polymer

NOAEC no observed adverse effect concentration

NOAEL no observed adverse effect level NOEC no observed effect concentration

NOEL no observed effect level

**NZIOC** New Zealand. Inventory of Chemicals

**OECD** Organisation for Economic Cooperation and Development

OEL occupational exposure limit
ONT INV Canada. Ontario Inventory List
PBT persistent, bioaccumulative and toxic

PHARM (JP) Japan. Pharmacopoeia Listing

PICCS (PH) Philippines. Inventory of Chemicals and Chemical Substances

PNEC predicted no-effect concentration
REACH Auth. No.: REACH Authorisation Number

**REACH AuthAppC. No.** REACH Authorisation Application Consultation Number

UK REACH Auth. No.: UK REACH Authorisation Number

**UK REACH AuthAppC.** 

No.

UK REACH Authorisation Application Consultation Number

UK REACH-Reg.No
UK REACH Registration Number
specific target organ toxicity
substance of very high concern
TCSI
Taiwan. Existing Chemicals Inventory

**TH INV** Thailand. Existing Chemicals Inventory from FDA

TSCA US. Toxic Substances Control Act

#### **Further information**

Key literature references : and sources for data

Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were

used to create this safety data sheet.

Methods used for product classification

Hints for trainings

The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

: The workers have to be trained regularly on the safe handling
of the products based on the information provided in the Safety

of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of

hazardous materials must be adhered to.

Other information : The information provided in this Safety Data Sheet is

correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be

ADBLUE / BULK		
	considered as a warranty or quality specification are does not constitute a legal relationship.  The information contained in this Safety Data Sheer relates only to the specific material designated and not be valid for such material used in combination any other material or in any process, unless specific the text.	et I may with
Indicates updated section.		
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Biofuel Express is a leading distributor of fossil-free biofuels such as HVO100 Renewable Diesel and B100 Biodiesel RME Premium. Our primary focus is the market of biofuels. We are passionate about the green environmental impact of sustainable fuel.

Biofuel Express specialises in providing advice and assessing the benefits of fossil-free fuels for your company. This makes us the right partner for you if you want to transition to fossil-free operation of your diesel-powered vehicles.

For the past 15 years, we have specialised in converting fleets and equipment for refueling buses, trucks, and cars from regular diesel to fossil-free operation.

Our market-leading, high-quality products can be refueled directly at our stations in Sweden and Denmark or delivered to your own tanks. Biofuel Express is your guarantee of reliable distribution.



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