ADBLUE

SECTION 01 - IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

PRODUCT:	"BENZOL® - ADBLUE"
CHEM NAME:	MIXTURE (SEE SECTION 2)
CHEM FAMILY:	DIESEL EXHAUST FLUID
HEALTH HAZARD:	MAY BE HARMFUL OR FATAL IF SWALLOWED

Application

This safety SDS has been printed in the English language and meets safety Data Sheet requirements for this product**.** No country specific information is included.

Company Identification

Benzol Lubricants
Contact +49 174 2131885
Mail: info@benzollubricants.de - Web: www.benzollubricants.de

Emergency Number: +49 174 2131885 (09:00 - 18:00 – Working hours | Monday - Friday – Working Days)

SECTION 02 - COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical composition

Composition	CAS No	Approximate Weight %
TG UREA	57-13-6	32.5
DE-IONIZED WATER	7732-18-5	67.5

SECTION 03 – HAZARDS IDENTIFICATION

This material is not considered to be Hazardous but should be handled in accordance with good industrial hygiene and safety practices.

SECTION 04 – FIRST AID MEASURES

Eyes

Wash eye thoroughly with copious quantities of water, ensure eyelids are held open. Obtain medical advice if any pain or redness develops or persists.

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Skin

Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.

Ingestion

If contamination of the mouth occurs, wash out thoroughly with water.
Except as a deliberate act, the ingestion of large amount of product is unlikely. If should occur, do not induce vomiting; obtain medical advice.

Inhalation

If inhalation of mists, fumes or vapor causes irritation to nose or throat, or coughing remove to fresh air. If symptoms persist, obtain medical advice.

Medical advice

Treatment should in general be symptomatic and directed to relieving any effects.

SECTION 05 – FIRE FIGHTING MEASURES

Use foam, dry powder, or water fog. Do not use water jets.
Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus. Water may be used to cool nearby heat exposed Areas/object/packages. Avoid spraying directly into storage containers because of the danger of boil-over

Combustion products

Toxic fumes may be evolved on burning or exposure to heat.
See stability and reactivity, section 10 of this Safety Data Sheet.

SECTION 06 – ACCIDENTAL RELEASE MEASURES

Contain and recover spilled material using sand or other suitable inert absorbent material.
It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonable anticipated.
Spilled material may make surface slippery.
Protect drains from potential spills to minimize contamination. Do not wash product into drainage system.
In case of large spills, contact appropriate authorities.
In the case of spillage on water, prevent the spread of product using suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.

SECTION 07 - HANDLING AND STORAGE

Avoid contact with eyes. If splashing is likely to occur wear a full-face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used products.
Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times. Wash hands thoroughly after contact.

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Use disposable cloth and discard when solid. Do not put soiled cloth into pockets.

Fire prevention

The product is not flammable.

Storage condition

Store the products under covered well-ventilated room, at temperatures as low as possible and should not be exposed to direct sunlight.
Store in tightly closed container at temperature between -5°C and 30°C.

SECTION 08 – EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits

There is no appropriate occupational exposure limit for this material.
Ensure good ventilation.
Avoid as far as reasonably practicable inhalation of vapor, mists or fumes generated during use.
If vapor, mist, or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

Protecting clothing

Wear face wiser or goggles in circumstances where eye contact can accidentally occur.
If skin contact is likely, wear impervious protective clothing and/or gloves.
Heavily contaminated clothing as soon as reasonably practicable; dry clean, launder and preferably starch before reuse. Wash any contaminated underlying skin with soap and water.

Respiratory protection

Respiratory protection is unnecessary, provided the concentration of vapor mists or fumes is adequately controlled. The use of respiratory equipment must be strictly in accordance with the manufacturers in statutory requirements governing its selection and use.

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SECTION 09 – TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Clear Liquid
Color	:	Colorless
Odor	:	Slight Ammoniacal
pH value	:	9.8 – 10
Freezing Point	:	-11°C
Refractive Index	:	1.3814 – 1.3843
Urea Concentration	:	31.8 – 33.2 %
Initial Boiling Point	:	102°C
Flash Point, °C	:	Not Applicable
Density at 20°C	:	1.087 – 1.093 kg/m^3
Solubility in water	:	Completely Soluble
Dynamic Viscosity	:	1.4 mPa.s @25°C

SECTION 10 – STABILITY & REACTIVITY

Chemical Stability

Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.

Possibility of Hazardous Reactions

Product reacts with strong oxidizing agents.
Hazardous polymerization reaction will not occur.

Materials to avoid

Avoid contact with strong oxidizing agents.

Hazardous decomposition product

Thermal decomposition products will vary with conditions.
Incomplete combustion will generate gases carbon dioxide and hazardous gases including carbon monoxide, Ammonia, and nitrogen gases.

SECTION 11 – TOXICOLOGICAL INFORMATION

Eyes

Unlikely to cause more than transient stinging or accidental eye contact occurs.

Skin

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

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Ingestion
Unlikely to cause harm if accidentally swallowed in small doses through larger quantities may cause nausea and diarrhea.

Inhalation
At normal ambient temperatures this product will be to present an inhalation hazard of its low volatility may cause irritation to eyes nose and throat due to exposure to vapor, mists or fumes may be harmful by inhalation if exposure to vapor, mists or fumes resulting from thermal decomposition product occurs.

SECTION 12 – ECOLOGICAL INFORMATION

Mobility
This product is water soluble. No ground water contamination will occur when spilled in the soil.

Persistence and degradability
This product is inherently biodegradable.

Bio accumulative potential
There is no evidence to suggest bioaccumulation will occur.

Aquatic toxicity
This product is not considered harmful to aquatic organisms.

SECTION 13 – DISPOSAL CONSIDERATION

Where possible, arrange for product to be recycled.
Dispose of via an authorized person / licensed waste disposal contractor in accordance with local regulations. Incineration may be carried or under controlled conditions provided that local regulations for emissions are met.

SECTION 14 – TRANSPORT INFORMATION

Not classified as hazardous for transport (ADR, RID, UN, IMO, IATA / CAO)

SECTION 15 – REGULATORY INFORMATION

Not classified as hazardous for supply.

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SECTION 16 – OTHER INFORMATION

This data sheet and the health safety and environmental information it contains, is considered as accurate as of the date specified below. We have reviewed any information contained herein which we received from sources outside of the company. However, no warranty or representation, express or implied is made is made as to the accuracy or completeness of the data and information contained in this data sheet.

Health and safety precaution and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and used this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization given or implied to practice any planted invention without a valid license. The company shall not be responsible for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazard inherent in the nature of the material.

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