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Pages: 1 of 8

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SAFETY DATA SHEET ADECO ADBLUE

According to Safety Data Sheet Regulation (Off. Gaz. of RoS 100/11)

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

*** Subsection 1.1. Identification of the substance or preparation:**

Trade name:
ADECO ADBLUE

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

Non-toxic synthetic solution, which is used as an agent for the reduction of exhaust emissions after the SCR - technology in cargo vehicles with Euro 4, Euro 5 and Euro 6 diesel engines ** (B60200).
Not recommended for use for other purposes.

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

Name: ADECO d.o.o.
Status: Manufacturer and distributor
Address: Temerinski put 109, 21000 Novi Sad, Serbia
Manufacturer's telephone: +381 (0)21 678 00 80
Fax: +381 (0)21 641 16 41
E-mail: prodaja@adeco.rs

*** Subsection 1.4 Emergency telephone:**

+381 (0)21 678 00 80 (07-15 h)

Poison Control Centre telephone VMA: +381 (0)11 360 84 40 (24/7)

SECTION 2. HAZARDS IDENTIFICATION

*** Sub-section 2.1. The classification of chemicals:**

Classification of chemicals (mixtures) according to the Regulations on the classification, packaging, labeling and advertising chemicals and certain products in accordance with the Globally Harmonized System of classification and labeling UN ("Off. Gazette of RS", No. 21/19):

Not classified as dangerous

*** Sub-section 2.2. Label elements:**

Indication of pictogram and a word of warning:	-
Hazard:	Not classified as hazardous
Precautionary statements (Prevention and Response):	P102 Keep out of reach of children P273 Avoid release / release into the environment.
Storage:	-
Disposal:	P501 Dispose of contents of packaging in accordance with local regulations
Additional information on the label:	-
* Sub-section 2.3. Other hazards: Specific hazards:	The chemical does not meet the criteria as PBT or vPvB



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

* Sub-section 3.1. Information on ingredients Substance: Not applicable

* Sub-section 3.1. Information on ingredients of the mixture:

Classification according to GHS Regulation ((EC) No 1272/ 2008):

Sequence number	CAS number	EC number	REACH reg. number	Chemical name of the substance or the trade name for a mixture	Hazard Class and Category danger, hazard statement according to CLP / GHS	Mass fraction (%)
1.	57-13-6	200-315-5	01-21194632 77-33	Urea	Not classified as dangerous	31,8-33,2

SECTION 4. FIRST AID MEASURES

* Subsection 4.1. Description of first aid measures:

Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present. In case of any effects contact an ophthalmologist.
Skin contact:	Immediately remove all contaminated clothes. Wash off with soap and plenty of water. In case of irritation symptoms seek medical advice.
Inhalation:	Remove the person exposed to a room with fresh air.
Ingestion:	If swallowed, give a plenty of water to drink. Seek medical assistance.
* Subsection 4.2. Most important symptoms and effects, both acute and delayed:	Delayed effects are not expected in any case.
* Subsection 4.3. Indication of immediate medical attention and special treatment needed, if necessary:	Indications for the physician: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

* Subsection 5.1. Extinguishing media:	Not flammable. Scattered water stream, Carbon dioxide, dry chemical.
* Subsection 5.2. Special hazards arising from the substance or mixture:	Ammonia fumes.
* Subsection 5.3. Precaution for fire-fighters:	Use personal protective equipment for protection of firefighters, special firefighting suits and protective masks.

SECTION 6. ACCIDENTAL RELEASE MEASURES

* Subsection 6.1. Personal precautions, protective equipment and emergency procedures:	Manipulate in accordance with good industrial hygiene and safety. Avoid inhalation. Described in the section 8th
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*** Subsection 6.2. Environmental precautions:**

No special precautions.

*** Subsection 6.3. Methods and materials for containment and cleaning up:**

Rinse with plenty of water.

*** Subsection 6.4. Reference to other sections:**

See Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

*** Subsection 7.1. Precautions for safe handling:**

Special measures are not necessary provided if the product is properly used.

*** Subsection 7.2. Conditions for safe storage, including any incompatibilities:**

Suitable materials for containers: High density polyethylene (HDPE), low density polyethylene (LDPE), stainless steel 1.4541, stainless steel 1.4571

Unsuitable materials for containers: paper, iron, tin (tinplate), copper, aluminum, glass, brass, zinc.

Storage stability:

Storage temperature: $\leq 25^{\circ}\text{C}$ (-5°C to 30°C)

Storage duration: 18 months

Protect from temperatures below: -11°C

Packed product is not damaged by low temperatures or frost. Protect from temperatures above 35°C :

*** Subsection 7.3. Specific uses:**

None

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

*** Subsection 8.1. Exposure limit values:**

No data available

*** Subsection 8.2. Exposure controls and personal protection:**

General safety and hygiene measures:

Maintain good ventilation of the work area. Wash hands and face after handling and packaging at the end of the day. Wash work clothes before re-use.

Hand protection:

Use chemically resistant gloves. Recommended materials: nitrile, neoprene, PVC. Break through time > 480 min. EN 374

Eye protection:

Use safety glasses with side shields, tight folding goggles (splash goggles) EN 166

Skin protection:

Protective clothing made of natural materials and rubber boots.

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Recommended: Filter P2 (EN 143)



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Environmental exposure controls: Manipulate in accordance with good industrial hygiene and safety.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

* Subsection 9.1. General information:

a) Appearance	Liquid
b) Colour:	Transparent
c) Odour:	Mild, on ammonia
d) Odour threshold:	No information available
e) pH of the chemical as supplied	9-10
f) Boiling point, min.:	100°C
g) Pour point/Freezing point (50% aqueous solution), max.:	-11.5 °C
h) Flash point, min:	No information available
i) Evaporation rate:	No information available
j) Combustibility:	No information available
k) Lower/Upper flammable/explosive limit	Not applicable
l) Vapour pressure	23 mbar (20°C)
m) Vapour density	No information available
n) Relative density at 20 °C:	1.087– 1.093 g/cm ³
o) Water Solubility:	Soluble in water
p) n-octanol/water partition coefficient;	Not applicable
q) Auto-ignition temperature;	No information available
r) Decomposition temperature;	No information available
s) Viscosity;	1,4 mPas (at 25°C)
t) Explosive properties;	Not applicable
u) Oxidizing properties.	Not applicable

* Subsection 9.2. Other data: No information available

SECTION 10. REACTIVITY AND STABILITY

* Subsection 10.1. Reactivity:	The product is not reactive at recommended temperatures and conditions of storage, handling and use.
* Subsection 10.2. Chemical stability:	The product is stable at recommended temperatures and conditions of storage, handling and use.
* Subsection 10.3. Possibility of hazardous reactions:	No dangerous reactions under normal conditions.
* Subsection 10.4. Conditions to avoid:	Avoid contamination with metals, dust and organic materials.
* Subsection 10.5. Incompatible materials:	Avoid contact with nitrites, nitrates, strong oxidizing agents, acids and bases
* Subsection 10.6. Hazardous decomposition products:	Anhydrous ammonia. Hazardous decomposition products are not created under normal conditions of storage and use.



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SECTION 11. TOXICOLOGICAL INFORMATION

* Subsection 11.1. Information on toxicological effects - mixture:

a) Acute toxicity: Not on the list of US-toxicological program (NTP), nor on the list of the International Organization for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans.

Urea: LD50 rat (oral): 14,300 mg/kg

b) Skin corrosion, skin irritation: No irritation

c) Serious eye damage / eye irritation: No irritation

d) Sensitivity of respiratory or skin: No information available

e) Germ cell mutagenicity: No information available

f) Carcinogenicity: No information available

g) Reproductive toxicity: No information available

h) Spec. Tox. target organ toxicity - single exposure: None

i) Spec. Tox. target organ toxicity - repeated exposure: None

j) Aspiration hazard: No information available

SECTION 12. ECOLOGICAL INFORMATION

* Subsection 12.1. Toxicity:

Ecotoxicity:

Fish: LC50 > 6,810 mg/l, *Leuciscus idus* (DIN 38412 Part 15)

Aquatic organisms:

LC50 (48 h) > 10,000 mg/l, *Daphnia magna*

EC10(8 d) > 10,000 mg/l, *Scenedesmus quadricauda*

Microorganisms/Effect on activated sludge: EC10 (16 h) > 10,000 mg/l, *Pseudomonas putida*

* Subsection 12.2. Persistence and degradability:

No information available about significant effects or hazards

96%DOC(16d) biodegradable

* Subsection 12.3. Bioaccumulative potential:

No information available about significant effects or hazards

* Subsection 12.4. Mobility in soil:

No information available about significant effects or hazards

* Subsection 12.5. Results of PBT and vPvB assessment:

The product does not fulfil the criteria for PBT or vPvB

* Subsection 12.6. Other adverse effects:

No information available about significant effects or hazards

SECTION 13. DISPOSAL CONSIDERATIONS

* Subsection 13.1. Waste treatment methods:

The product is not classified as hazardous waste.

Waste disposal :

It must be disposed to a landfill, or to an appropriate incineration



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plant, taking into account local regulations.

Contaminated
packaging:

Contaminated packaging is disposed of, recycled or destroyed in
accordance with local regulations and laws.

Applicable local regulations:

See Section 15.

SECTION 14. TRANSPORT INFORMATION

The product is not subject to transport regulations on hazardous substances included in ADR (road transport), RID (rail transport), IMDG (sea transport) and ICAO / IATA (air transport) i.e. it is not classified as hazardous for transport

- * **Subsection 14.1. UN No.:** Not applicable
- * **Subsection 14.2. UN proper shipping name:** Not classified as hazardous product for transport.
- * **Subsection 14.3. Hazard class in transport:** Not classified as hazardous product for transport
- * **Subsection 14.4. Packing group:** Not applicable
- * **Subsection 14.5. Environmental hazard:** Not applicable
- * **Subsection 14.6. Special precautions for users:** Not applicable
- * **Subsection 14.7. Bulk transport:** Not applicable

SECTION 15. REGULATORY INFORMATION

*** Subsection 15.1. Health, safety and environment regulations:**

- Applicable regulations:
- Law on Chemicals ("Off. Gazette of RoS", No. 36/09, 88/10, 92/11, 93/12, 25/2015)
 - Regulations on restrictions and bans of the production, marketing and use of chemicals that present an unacceptable risk to human health and environment ("Off. Gazette of RoS", No.89/10, 71/11, 90/11, 56/12,90/13, 25/15, 2/16, 44/17, 36/18,9/2020, 57/22)
 - Rulebook on Classification, Packaging, Labelling and Advertising of Chemicals and Certain Articles Pursuant to UN Globally Harmonized System of Classification and Labelling ("Off. Gazette of RoS", No. 64/10, 26/11, 105/13, 52/17, 21/19)
 - Safety Data Sheet Regulation ("Off. Gazette of RoS", No.81/10, 100/11)
 - Law on Environmental Protection ("Off. Gazette of RoS", No. 135/04, 36/09, 36/09- i 72/09-, 43/2011 - US i 14/2016, 76/2018, 95/18)
 - Law on Waste Management ("Off. Gazette of RoS", No. 36/09, 88/10, 14/2016, 95/18)
 - Law on Packaging and Packaging Waste ("Off. Gazette of RoS", No. 36/09, 14/2016, 95/18)
 - Regulations on the storage, packaging and labeling of



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hazardous waste ("Off. Gazette of RoS", No. 92/10, 77/21)
- Regulations on preventive measures for safe and healthy work
when exposed to chemical substances ("Off. Gazette of RoS",
No. 106/2009, 117/2017, 107/21).

* **Subsection 15.2. Chemical safety assessment:** Not relevant

SECTION 16. OTHER INFORMATION

a) Data which have been modified, amended or deleted as compared to the previous version SDS:

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b) a list of abbreviations and acronyms listed in the SDS with an explanation of their meaning:

vPvB - very Persistent very Bio accumulative (substance)

PBT - Persistent, Bio accumulative and toxic (substance)

c) a list of references and sources of data used to create SDS:

The legislation cited in Section 2-15 of the Safety Data Sheet.

d) information on the method of assessment data in accordance with the CLP / GHS Regulation:

Data on threat assessment mixtures were obtained using the method of calculation given in Annex 2, 3 and 4 of the Regulation on Classification, Packaging, Labelling, and Advertising of Chemicals and Certain Products in accordance with UN Globally Harmonized System for Classification and Labelling ("Off. Gazette of RS", no. 64 / 10, 26/11, 105/13,52/17, 21/19)

e) a list of risk phrases (H phrase) with accompanying text, label security:

None

a list of (P phrase) with accompanying text, mentioned in SDS, with accompanying text and / or information about safety precautions:

P 102 Keep out of reach of children

P 273 Avoid release / release into the environment.

P501 Dispose of contents of packaging in accordance with local regulations

f) advice on training employees to protect human health and the environment:

Employees who use the product should be trained about the risks to health, hygiene, use of personal protection devices, preventive measures to prevent accidents, rescue procedures, etc ...

The information in this Safety Data Sheet is provided in accordance with our knowledge of this product and is subject to change. The product must not be used for purposes other than those



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specified in the manual.
