

SWAG Autoteile GmbH  
42117 Wuppertal

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

### 1.1 Product identifier

**Ad Blue**

**Article number: 30 94 6329, 33 10 0844, 33 10 0845, 33 10 0849, 33 10 0993, 33 10 0994**

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

#### 1.2.1 Relevant uses

after-treatment of exhaust gases for diesel automotive

#### 1.2.2 Uses advised against

None known.

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

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42117 Wuppertal / GERMANY  
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#### Address enquiries to

**Technical information** [info@swag.de](mailto:info@swag.de)

**Safety Data Sheet** [info@swag.de](mailto:info@swag.de)

### 1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (English)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

No classification.

### 2.2 Label elements

The product does not require a hazard warning label in accordance with regulation CLP.

**Hazard pictograms** none

**Hazard statements** none

**Precautionary statements** none

### 2.3 Other hazards

**Environmental hazards** Does not contain any PBT or vPvB substances.  
Contains no ingredients with endocrine-disrupting properties.

**Other hazards** none

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

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### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
60 - < 75	Water
	CAS: 7732-18-5, EINECS/ELINCS: 231-791-2
25 - < 40	Urea
	CAS: 57-13-6, EINECS/ELINCS: 200-315-5

#### Comment on component parts

No dangerous components.  
All chemical substances in this material are included on or exempted from listing on the IECSC Inventory.  
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse out mouth and give plenty of water to drink. In the event of symptoms seek medical treatment.

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

None known.

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

Treat symptomatically.  
Forward this sheet to your doctor.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
Extinguishing media that must not be used	Full water jet.

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

In the event of fire the following can be released:  
Carbon monoxide (CO)  
Nitrogen oxides (NOx).  
Hydrogen cyanide (HCN).  
Ammonia (NH<sub>3</sub>).

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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## SECTION 6: Accidental release measures

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

Use personal protective equipment.

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).  
Dispose of absorbed material in accordance with the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.

Wash hands before breaks and after work.  
Do not eat, drink or smoke when using this product.  
Keep away from food and drink.  
Take off contaminated clothing and wash before reuse.

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

Do not store together with oxidizing agents.  
Keep container tightly closed and store it at a well-ventilated place.  
Recommended storage temperature: -10 - 25 °C  
Keep in a cool place. Store in a dry place.  
Do not keep at temperatures above 35 °C.  
Do not keep at temperatures below - 11 °C.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

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## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Ingredients with occupational  
exposure limits to be monitored (GB)

not relevant

#### DNEL

Substance
Urea, CAS: 57-13-6
worker, inhalative, Long-term - systemic effects, 292 mg/m <sup>3</sup> (AF=12)
worker, dermal, Long-term - systemic effects, 580 mg/kg bw/d (AF=12)
general population, oral, Long-term - systemic effects, 42 mg/kg bw/d (AF=12)
general population, dermal, Long-term - systemic effects, 580 mg/kg bw/d (AF=12)
general population, inhalative, Long-term - systemic effects, 125 mg/m <sup>3</sup> (AF=12)

#### PNEC

Substance
Urea, CAS: 57-13-6
seawater, 0.047 mg/L (AF=1000)
freshwater, 0.47 mg/L (AF=100)

### 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. 0.4 mm: Nitrile rubber, >120 min (EN 374-1/-2/-3). 0.7 mm: butyl rubber, > 120 min (EN 374)
<b>Skin protection</b>	Not required under normal conditions.
<b>Other</b>	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid prolonged and/or repeated contact with skin.
<b>Respiratory protection</b>	Not required under normal conditions.
<b>Thermal hazards</b>	No information available.
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	colourless
Odor	like ammoniac
Odour threshold	No information available.
pH-value	9 -10
pH-value [1%]	No information available.
Boiling point [°C]	ca. 100
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	2.3 (20 °C)
Density [g/cm³]	1.087 - 1.093 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	completely miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	-1.73
Kinematic viscosity	2.5 mPa.s (20 °C)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	ca. -11
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with strong alkalis and oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7.2.  
Strong heating.

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## 10.5 Incompatible materials

Strong oxidizing agent.

## 10.6 Hazardous decomposition products

In the case of heating following (decomposition) products may occur:  
Ammonia.  
Nitrous oxides (NO<sub>x</sub>).

## SECTION 11: Toxicological information

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

#### Acute oral toxicity

Product
ATE-mix, oral, 14 300 mg/kg bw
Substance
Urea, CAS: 57-13-6
LD50, oral, Rat, 14300 mg/kg

#### Acute dermal toxicity

Substance
Urea, CAS: 57-13-6
LD50, dermal, Rat, 8200 mg/kg (IUCLID)

#### Acute inhalational toxicity

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

Toxicological data of complete product are not available.  
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

### 11.2 Information on other hazards

Endocrine disrupting properties	Contains no ingredients with endocrine-disrupting properties.
Other information	none

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## SECTION 12: Ecological information

### 12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Urea, CAS: 57-13-6
Pseudomonas putida, > 10000 mg/l /16h
Scenedesmus quadricauda (alga), > 10000 mg/l /8d
LC50, Leuciscus idus, > 6810 mg/l (DIN 38412)
LC50, (96h), fish, 12000 mg/l (IUCLID)
EC50, (48h), Daphnia magna, > 10000 mg/l (Lit.)

### 12.2 Persistence and degradability

#### Behaviour in environment compartments

Behaviour in sewage plant No information available.

Biological degradability Biodegradable.

### 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Coordinate disposal with the disposal contractor/authorities if necessary.

#### Waste no. (recommended)

070199

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Contaminated packing should be disposed of as product waste.

#### Waste no. (recommended)

150102

## SECTION 14: Transport information

### 14.1 UN number or ID number

#### Transport by land according to ADR/RID

not applicable

#### Inland navigation (ADN)

not applicable

#### Marine transport in accordance with IMDG

not applicable

Air transport in accordance with IATA not applicable

### 14.2 UN proper shipping name

#### Transport by land according to ADR/RID

NO DANGEROUS GOODS

#### Inland navigation (ADN)

NO DANGEROUS GOODS

#### Marine transport in accordance with IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

### 14.3 Transport hazard class(es)

#### Transport by land according to ADR/RID

not applicable

#### Inland navigation (ADN)

not applicable

#### Marine transport in accordance with IMDG

not applicable

Air transport in accordance with IATA not applicable



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#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people no

- VOC (2010/75/CE) 0 %

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

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## SECTION 16: Other information

### 16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

### 16.2 Other information

#### Classification procedure

#### Modified position

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.  
SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.