Safety Data Sheet (UK REACH) (GB)

febi 46329 Ad Blue Article number 46329, 171331, 171335, 171336, 171337, 171338



Ferdinand Bilstein GmbH + Co. KG

Date printed 27.01.2022, Revision 27.01.2022

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

1.1 Product identifier

febi 46329 Ad Blue

Article number: 46329, 171331, 171335, 171336, 171337, 171338

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

Company Ferdinand Bilstein GmbH + Co. KG

Wilhelmstr. 47

58256 Ennepetal / GERMANY Phone +49 2333 911-0 Fax +49 2333 911-444 Homepage www.febi.com E-mail info@febi.com

Address enquiries to

Technical information info@febi.com
Safety Data Sheet info@febi.com

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.

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.

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

Ingestion

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 (NH3).

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 within 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 applicable

DNEL

Substance

Urea, CAS: 57-13-6

worker, inhalative, Long-term - systemic effects, 292 mg/m³ (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/m³ (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

Additional advice on system design

Ensure adequate ventilation on workstation.

Eye protection Safety glasses. (EN 166:2001)

Hand protection 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)

Skin protection Not required under normal conditions.

Other 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.

Respiratory protection Not required under normal conditions.

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

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 stateliquidColorcolourlessOdorammoniac-like

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 viscosity2,5 mPa.s (20 °C)Relative vapour densityNo information available.Evaporation speedNo information available.

 Melting point [°C]
 ca. -11

 Auto-ignition temperature
 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 alkalies 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 occure:

Nitrous oxides (NOx).

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)	

Ac	ute	inha	lational	toxi	cit	y
_						

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.

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

General remarks

Endocrine disrupting properties No information available.

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.	
Cubatanaa	

Substance

Urea, CAS: 57-13-6

Pseudomonas putida, > 10000 mg/l /16h

Scenedesmus quadricauda (algea), > 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

No information available.

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.



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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.

150102 Waste no. (recommended)

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

IMDG

Marine transport in accordance with 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

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

IMDG

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 no

IMDG

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 (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

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

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 none