SAFETY DATA SHEET (SDS)

PETROVOLL BLUE-TEC AdBlue® / AUS 32

SECTION 1 IDENTIFICATION

1.1 Product Identifier

Product Name:
PETROVOLL BLUE-TEC AdBlue® (AUS 32)

Recommended Use:
Diesel Exhaust Fluid (DEF) for Selective Catalytic Reduction (SCR) systems in diesel-powered vehicles and equipment.

1.2 Identified Uses

1.2.1 Restrictions on Use:
Use only in SCR emission control systems. Not intended as fuel, fuel additive, coolant, or lubricant.

1.2.2 Other Means of Identification:
AUS 32, DEF, Urea Solution 32.5%, ISO 22241.

1.3 Product Supplier

Petrovoll Lubricants
Essen, Germany

1.4 Details of Supplier of Safety Data Sheet

Phone: +49 201 319377074

Email: info@petrovoll.com

1.5 Transportation Emergency Response

Carechem:
+44 (0) 1235 239 671 (Arabic language 24/7)
+44 (0) 1235 239 670 (English language 24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification

This product is not classified as hazardous according to GHS, CLP Regulation (EC) No. 1272/2008, OSHA HazCom 2012, or WHMIS 2015.

2.2 Other Hazards

• Prolonged contact may cause mild irritation to skin or eyes.

• Dried residues may form crystals causing slipping hazards.

• Product contamination may damage SCR systems.

• Not classified as PBT or vPvB.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical Name | CAS No. | Approximate Weight %

High Purity Urea | 57-13-6 | 32.5%

Demineralized Water | 7732-18-5 | 67.5%

Note:
Manufactured according to ISO 22241 requirements.

SECTION 4 FIRST AID MEASURES

4.1 Description of First Aid Measures

4.1.1 Eye Contact

Immediately flush eyes with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

4.1.2 Skin Contact

Wash affected skin thoroughly with soap and water. Remove contaminated clothing.

4.1.3 Inhalation

Move affected person to fresh air. Seek medical advice if symptoms persist.

4.1.4 Ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Obtain medical attention if large quantities are swallowed.

4.1.5 Protection of First Aiders

No special precautions required.

4.2 Most Important Symptoms and Effects

• Mild eye irritation

• Mild skin irritation

• Gastrointestinal discomfort if swallowed

4.3 Indication of Immediate Medical Attention

Treat symptomatically.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media include:

• Water spray

• Foam

• Dry chemical powder

• Carbon dioxide (CO_2)

5.2 Unsuitable Extinguishing Media

None known.

5.3 Protection of Fire Fighters

5.3.1 Fire Fighting Instructions

Product itself is not combustible.

Use extinguishing media appropriate for surrounding fire conditions.

5.3.2 Combustion Products

Thermal decomposition may produce:

• Ammonia

• Nitrogen oxides (NOx)

• Carbon dioxide

5.3.3 Protection of Fire Fighters

Use self-contained breathing apparatus if decomposition fumes are present.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Avoid contact with eyes.

Use suitable protective equipment.

Beware of slippery surfaces.

6.1.1 Spill Management

• Stop leak if safe to do so.

• Contain spill.

• Absorb using inert material.

• Flush small spills with water.

• Prevent contamination of watercourses where required by local regulations.

6.2 Reporting

See Sections 1, 5, 8, 12 and 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for Safe Handling

• Avoid contamination with fuels, lubricants, chemicals, or metals.

• Use only dedicated clean equipment.

• Avoid prolonged skin or eye contact.

• Maintain product cleanliness according to ISO 22241.

7.2 Conditions for Safe Storage

Store in original or approved HDPE, stainless steel (304/316), or compatible containers.

Recommended storage temperature:

-5°C to +25°C

Avoid temperatures above 30°C.

Protect from direct sunlight.

Keep container tightly closed.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 General Considerations

Good industrial hygiene practices should be followed.

8.2 Engineering Controls

Normal workplace ventilation is sufficient.

8.2.1 Personal Protective Equipment

8.2.1.1 Eye Protection

Safety glasses or goggles recommended.

8.2.1.2 Skin Protection

Protective gloves recommended for prolonged handling.

Suitable materials:

• Nitrile

• PVC

• Butyl Rubber

8.2.1.3 Respiratory Protection

Not normally required.

8.2.2 Occupational Exposure Limits

No specific occupational exposure limits established for AdBlue® solution.

8.2.3 Environmental Exposure Controls

Prevent unnecessary discharge into waterways.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Property | Value

Appearance | Clear, colorless liquid

Odor | Slight ammonia odor

pH (10% solution) | 9.0 – 10.0

Density @ 20°C | 1087 – 1093 kg/m³

Urea Content | 31.8 – 33.2%

Refractive Index @ 20°C | 1.3814 – 1.3843

Freezing Point | Approx. -11°C

Boiling Point | Approx. 100°C

Flash Point | Not Applicable

Auto-Ignition Temperature | Not Applicable

Explosive Properties | Not Explosive

Oxidizing Properties | Not Oxidizing

Solubility in Water | Completely Miscible

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended conditions.

10.2 Chemical Stability

Stable during normal handling and storage.

10.3 Possibility of Hazardous Reactions

No hazardous polymerization expected.

10.4 Conditions to Avoid

- Excessive heat
- Direct sunlight
- Product contamination

10.5 Incompatible Materials

- Strong oxidizers
- Nitrites
- Strong acids
- Chlorine compounds

10.6 Hazardous Decomposition Products

- Ammonia
- Nitrogen oxides

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Likely Routes of Exposure

• Eye contact

• Skin contact

• Ingestion

11.2 Information on Toxicological Effects

Eye Contact:
May cause temporary irritation.

Skin Contact:
May cause mild irritation after prolonged exposure.

Inhalation:
No significant hazard under normal conditions.

Ingestion:
Low acute toxicity.

Carcinogenicity:
Not classified.

Mutagenicity:
Not classified.

Reproductive Toxicity:
Not classified.

STOT-SE:
Not classified.

STOT-RE:
Not classified.

11.3 Aspiration Hazard

Not classified.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Not expected to be harmful to aquatic organisms at normal environmental concentrations.

12.2 Mobility

Highly soluble in water.

12.3 Persistence and Degradability

Readily biodegradable.

12.4 Bioaccumulation Potential

Not expected to bioaccumulate.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Disposal of Product

Dispose according to local regulations.

Large quantities should be processed through authorized waste treatment facilities.

13.2 Disposal of Packaging

Recycle clean containers whenever possible.

13.3 Special Precautions

Avoid discharge into surface waters without authorization.

SECTION 14 TRANSPORT INFORMATION

14.1 DOT

Not regulated.

14.2 IMDG

Not regulated.

14.3 IATA

Not regulated.

14.4 ADR/RID

Not regulated.

14.5 Transport in Bulk

Not classified as dangerous goods for transport.

SECTION 15 REGULATORY INFORMATION

15.1 Regulatory Lists

Manufactured in accordance with:

• ISO 22241

• DIN 70070

• AUS 32 Specifications

• REACH Regulation (EC) No. 1907/2006

• CLP Regulation (EC) No. 1272/2008

15.2 Chemical Inventories

Components comply with major international inventory requirements.

15.3 Labeling Requirements

No hazard labeling required under GHS.

SECTION 16 OTHER INFORMATION

16.1 Abbreviations and Acronyms

AUS 32 = Aqueous Urea Solution 32.5%

DEF = Diesel Exhaust Fluid

SCR = Selective Catalytic Reduction

ISO = International Organization for Standardization

GHS = Globally Harmonized System

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

ADR = European Agreement Concerning International Carriage of Dangerous Goods by Road

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP = Classification, Labelling and Packaging Regulation

16.2 Prepared By

Petrovoll GmbH

16.3 Preparation Date

06/06/2026

16.4 Disclaimer

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