

Safety Data Sheet (SDS)

Diesel Exhaust Fluid - DEF (Type AdBlue®)

Prepared in accordance with GHS
Globally Harmonized System and ISO 22241

ENGLISH VERSION

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1. COMPANY AND PRODUCT IDENTIFICATION

Product Name	BluePower® Premium DEF / AUS-32
Chemical Nature	32.5% High-Purity Aqueous Urea Solution
Appearance	Crystal-clear, colorless transparent liquid
Standard	Fully conforms to ISO 22241
Shelf Life	Up to 12 months under recommended storage conditions
Documentation	TDS + SDS provided with every shipment

2. HAZARDS IDENTIFICATION

- Classification according to GHS:** Not classified as hazardous.
- Signal Word & Hazard Statements:** Not applicable.
- Precautionary Statements:** Avoid unnecessary contact. Store in clean, dedicated containers.
- Other Hazards:** Product may crystallize below -11°C. Thermal decomposition may release ammonia vapors.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	CAS No.	Concentration
Urea (CO(NH ₂) ₂)	57-13-6	32.5% ± 0.7%
Deionized Water	7732-18-5	Balance

4. FIRST AID MEASURES

- Inhalation:** Move exposed person to fresh air if discomfort occurs.
- Skin Contact:** Wash thoroughly with water.
- Eye Contact:** Rinse cautiously with clean water for at least 15 minutes.
- Ingestion:** Rinse mouth; drink water; seek medical advice if symptoms persist.

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5. FIRE-FIGHTING MEASURES

- **Flammability:** Non-flammable.
- **Suitable Extinguishing Media:** Water spray, foam, dry powder.
- **Hazardous Decomposition:** Ammonia, nitrogen oxides.
- **Protective Equipment:** Standard firefighting PPE.

6. ACCIDENTAL RELEASE MEASURES

- Avoid slip hazard. Contain spill using inert absorbent material. Prevent release into drains and surface waters. Flush area with water after cleanup.

7. HANDLING AND STORAGE

- **Handling:** Use only ISO 22241 compliant equipment. Avoid contamination with fuels, oils, or metals.
- **Storage:** **Storage temperature:** -5°C to +25°C. Suitable materials: Stainless steel (AISI 316/304), High-Density Polyethylene. Protect from direct sunlight.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **Exposure Limits:** No occupational exposure limits established.
- **Engineering Controls:** General ventilation.
- **Personal Protective Equipment:** Protective gloves. Safety goggles during transfer operations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid
Odor	Slight ammonia-like
pH (20°C)	9.0 - 10.0
Density (20°C)	~1.087 g/cm³
Freezing Point	-11°C
Solubility	Completely miscible in water

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10. STABILITY AND REACTIVITY

- **Reactivity:** No dangerous reactions under normal conditions.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** High temperatures, contamination.
- **Incompatible Materials:** Copper, aluminum, oxidizing agents.

11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Low.
- **Skin Irritation:** Not irritating under normal use.
- **Eye Irritation:** Slight irritation possible.
- **Carcinogenicity:** Not classified.

12. ECOLOGICAL INFORMATION

Not classified as environmentally hazardous. Excessive release may contribute to eutrophication.

13. DISPOSAL CONSIDERATIONS

Dispose according to local regulations. Dilution with water prior to disposal is recommended where permitted.

14. TRANSPORT INFORMATION

- **UN Number:** Not applicable.
- **ADR/RID/IMDG/IATA:** Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Complies with ISO 22241. Not classified under GHS or CLP regulations.

16. OTHER INFORMATION

- **Revision Date:** 2026/05/11
- **SDS Version:** 01
- This SDS is prepared based on current industry standards

Disclaimer: The information contained herein is believed to be accurate at the time of preparation and is provided for guidance purposes only.