

Southern Blue Diesel Exhaust Fluid (DEF)

Safety Data Sheet (SDS)

Issue Date: August 2021 **Revision:** 1.0 **Hazard Alert Code:** 2
Southern Blue Reference: SB-DEF-2021

Southern Blue Pty Ltd

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Emergency Contact: Poisons Information Centre – 13 11 26

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1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Name: Southern Blue Diesel Exhaust Fluid (DEF)

Synonyms: AUS 32, Aqueous Urea Solution, Diesel Exhaust Fluid

Recommended Use: Reduces nitrogen oxide (NOx) emissions from diesel engines with SCR systems.

Supplier: Southern Blue Pty Ltd

Address: 10B Commercial Drive, Pakenham, Victoria 3810

Telephone: 1300 822 367

Email: amanda@southern-blue.com.au

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2. Hazards Identification

Classification:

- Skin Irritation – Category 2
- Eye Irritation – Category 2A
- STOT-SE (Respiratory) – Category 3

Signal Word: *Warning*

Hazard Statements:

- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation

Precautionary Statements:

- P261: Avoid breathing mist/vapours
- P280: Wear protective gloves and eye protection
- P305+P351+P338: IF IN EYES – rinse cautiously with water; remove contact lenses if present
- P302+P352: IF ON SKIN – wash with plenty of water

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3. Composition / Information on Ingredients

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Component	CAS Number	Concentration (%)
Urea	57-13-6	32.5
Deionized Water	7732-18-5	67.5

4. First Aid Measures

Eye Contact: Rinse cautiously with water for several minutes; remove contact lenses if present. Seek medical advice if irritation persists.

Skin Contact: Wash thoroughly with water and mild soap. Remove contaminated clothing. Seek medical attention if irritation occurs.

Inhalation: Move to fresh air and keep at rest. Seek medical attention if symptoms persist.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention if unwell.

Treatment: Treat symptomatically.

5. Firefighting Measures

Extinguishing Media: Use water spray, foam, dry chemical, or CO₂ suitable for surrounding fire.

Hazards from Combustion: Non-flammable. Decomposition may release ammonia and nitrogen oxides (NO_x).

Protective Equipment: Firefighters should wear self-contained breathing apparatus and protective gear.

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6. Accidental Release Measures

Personal Precautions: Avoid contact with skin and eyes. Wear gloves and protective eyewear.

Environmental Precautions: Prevent spills from entering drains and waterways.

Cleanup: Absorb with sand, earth, or inert material. Collect and dispose of according to local regulations.

7. Handling and Storage

Handling: Use only in well-ventilated areas. Avoid breathing vapours. Prevent contact with eyes and skin.

Storage: Store in a cool, dry, well-ventilated place, away from direct sunlight and incompatible materials.

Incompatibility: Avoid contact with acids, alkalis, and oxidizing agents.

8. Exposure Controls / Personal Protection

Engineering Controls: Ensure adequate ventilation.

Personal Protective Equipment (PPE):

- Eye Protection: Safety goggles or face shield
- Skin Protection: Chemical-resistant gloves and protective clothing
- Respiratory Protection: If ventilation is inadequate, use a suitable respirator
- Hygiene: Wash hands thoroughly after handling

9. Physical and Chemical Properties

Property	Typical Value
Appearance	Clear, colourless liquid
Odour	Slight ammonia
pH	~9.5
Melting Point	-11°C
Boiling Point	100°C
Density	1.09 g/cm ³
Solubility	Completely soluble in water

10. Stability and Reactivity

Reactivity: Stable under normal conditions.

Chemical Stability: Stable at room temperature.

Conditions to Avoid: High temperatures, contamination with reactive chemicals.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition: Ammonia, carbon dioxide, and nitrogen oxides when heated.

11. Toxicological Information

Inhalation: May cause irritation to the respiratory tract.

Skin Contact: May cause mild irritation on prolonged exposure.

Eye Contact: Causes serious eye irritation.

Ingestion: Low toxicity; may cause discomfort.

Chronic Effects: Prolonged contact may cause dryness or irritation.

12. Ecological Information

Toxicity: Low environmental hazard.

Persistence: Biodegradable.

Bioaccumulation: Not expected.

Mobility: Fully soluble in water; may migrate in soil.

Environmental Protection: Avoid release to the environment.

13. Disposal Considerations

Dispose of in accordance with local regulations. Do not discharge into drains or waterways. Contaminated packaging should be rinsed and recycled where possible.

14. Transport Information

UN Number: None allocated

Proper Shipping Name: Diesel Exhaust Fluid

Transport Hazard Class: Non-dangerous goods (ADG, IATA, IMDG)

Packing Group: Not applicable

Marine Pollutant: No

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15. Regulatory Information

All components are listed on the **Australian Inventory of Industrial Chemicals (AIIC)**. Complies with **WHS Regulations (Hazardous Chemicals)** and **ADG requirements**.

16. Other Information

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Approved by: Amanda Collings — Southern Blue Pty Ltd

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