



MATERIAL SAFETY DATA SHEET
EBLue / DEF / AdBlue / AUS32 / 32.5% Urea Solution



Material Safety Data Sheet (MSDS) for Earthly Roots Diesel Exhaust Fluid (DEF) - EBlue

Product Name: EBLue / DEF / AdBlue / AUS32 / 32.5% Urea Solution

Product Identifier: Earthly Roots EBlue DEF

Importer: COGNITO Group Inc.

Section 1: Identification

Product Name: EBlue Diesel Exhaust Fluid

Product Identifier: Earthly Roots EBlue DEF

Manufacturer/Importer: COGNITO Group Inc.

Address: 48 Rue des Fougères, L'Île-Perrot, QC, J7V 9V3, Canada

Emergency Telephone Number: 1-800-668-4284

Section 2: Hazard Identification

Classification: Not classified as hazardous according to GHS criteria.

Section 3: Composition/Information on Ingredients

Chemical Name: Urea Solution CAS Number: 57-13-6 Percentage: 32.5%

Chemical Name: Deionized Water CAS Number: 7732-18-5 Percentage: 67.5%

Section 4: First Aid Measures



MATERIAL SAFETY DATA SHEET
EBlue / DEF / AdBlue / AUS32 / 32.5% Urea Solution

Inhalation: Move to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash skin thoroughly with soap and water. If irritation occurs, seek medical attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Rinse your mouth and drink plenty of water. Seek medical attention immediately.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Use water spray, foam, dry chemicals, or carbon dioxide to extinguish fires.

Specific Hazards: Upon heating, the product may release ammonia gas.

Section 6: Accidental Release Measures

Personal Precautions: Wear appropriate protective equipment (e.g., gloves, goggles) to avoid contact with the product.

Environmental Precautions: Avoid spills or leaks from entering drains, sewers, or waterways.

Cleanup Methods: Absorb spilled material with an inert absorbent. Place in a suitable container for disposal.

Section 7: Handling and Storage

Handling: Use in well-ventilated areas. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

Storage: Store in a cool, dry place away from direct sunlight. Keep containers tightly closed and upright.

Section 8: Exposure Controls/Personal Protection



MATERIAL SAFETY DATA SHEET
EBlue / DEF / AdBlue / AUS32 / 32.5% Urea Solution

Ventilation: Ensure adequate ventilation in the workplace.

Personal Protective Equipment:

- Eye/Face Protection: Wear safety goggles or face shields.
- Skin Protection: Wear appropriate gloves and clothing to prevent skin contact.
- Respiratory Protection: Use NIOSH-approved respirator if exposure limits are exceeded.

Appropriate engineering controls: No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

Eye/face protection: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates possible skin contact.

Other skin and body protection: Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures: Provide an eyewash station and a safety shower. Use appropriate skin cream to prevent drying of the skin. When using do not eat, drink or smoke.

Respiratory protection: Respiratory protection is not required.

Section 9: Physical and Chemical Properties

Appearance: Clear liquid Odor: Odorless Boiling Point: Approximately 100°C (212°F) Density: Approximately 1.09 g/mL at 20°C (68°F) Solubility: Miscible in water

Appearance	Clear liquid.
Colour	Colourless.
Odour	No characteristic odour.

**MATERIAL SAFETY DATA SHEET
EBlue / DEF / AdBlue / AUS32 / 32.5% Urea Solution**

Odour	threshold Not determined.
pH	pH (concentrated solution): 9.0 - 10.0
Melting point	135-137°C
Initial boiling point and range	100°C @ 1.013 hPa
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.11 @ 20°C
Solubility(ies)	Soluble in water
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	1.4 mPa s @ 25°C
Oxidising properties	Not available.
Freezing Temperature	-11.5°C

Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Incompatibility: Avoid contact with strong acids and oxidizing agents.

Materials to avoid Oxidising agents. Acids. Alkalis.

Section 11: Toxicological Information

Acute Toxicity: Not classified as acutely toxic.

Section 12: Ecological Information

Ecotoxicity: Not expected to be harmful to aquatic life.



MATERIAL SAFETY DATA SHEET
EBlue / DEF / AdBlue / AUS32 / 32.5% Urea Solution



Section 13: Disposal Considerations

Dispose of the product and its container in accordance with local, regional, and national regulations.

Section 14: Transport Information

Not classified as hazardous for transportation.

Section 15: Regulatory Information

This product is in compliance with all applicable regulations.

EU legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).