



Section 1. Identification

Product Identifier

Product Name: EZ DEF
Product Type: Diesel Exhaust Fluid
Product Code: 8900

Recommended & Restricted Uses

Uses: Reactant for the reduction of NOx emissions
Restrictions: N/A

Manufacturer

Supplier: EZ DEF Ltd
3494 63 Ave
Leduc, AB
T9E 1E6
Canada
info@ezdef.com

Telephone: 587-671-0680

Emergency Telephone Number

Emergency 1-800-424-9300

Section 2. Hazard Identification

Hazard Classification

WHMIS Regulatory Status: Not Regulated
Hazard Statements: No known signification effects or hazards
Label Elements: Not Applicable

Section 3. Composition and Ingredient Information

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition			
Name	Product Identifier	% (w/w)	Classification
Water	CAS No 7732-18-6	67.5	Not Classified
Urea	CAS No 57-16-6	32.5	Not Classified

Section 4. First Aid Measures

Description of necessary first aid measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present. If irritation develops seek medical attention.

Inhalation: When symptoms occur go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Notes to physician: Treat symptomatically.

Section 5. Firefighting measures

Extinguishing media

Suitable Extinguishing Media: Use extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None Identified

Specific Hazards: Containers can burst due to heat.

Hazardous Thermal
Decomposition Products: Combustion products may include the following
Carbon Oxides, Nitrogen Oxides

Special protective actions for
fire-fighters: Isolate the scene.

Special protective equipment for
fire-fighters: Wear appropriate protective equipment and self-contained
breathing apparatus (SCBA) in positive pressure mode.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal precautions:	Keep unnecessary and unprotected personnel from entering Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution.

Methods and material for containment and cleaning up

Small spill:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up.
Large spill:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or contain and collect spillage with non-combustible absorbent material and place in a container for disposal according to local regulations.

Section 7. Handling and Storage

Precautions for safe handling

Protective Measures:	Put on appropriate personal protective equipment (Section 8). Do not eat, drink, or smoke where this material is handled.
Conditions for safe storage:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well ventilated area. Store away from incompatible materials (Section 10). Keep container tightly closed and sealed until ready for use.

Section 8. Exposure Controls & Personal Protection

Control parameters

Occupational Exposure Limits:	None
Appropriate engineering controls:	Good general ventilation
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

General	All personal protective equipment (PPE) should comply with Canada OH&S Regulations (SOR/86-304)
Eye/Face protection:	Recommended: Safety glasses.
Hand protection:	Recommended: Nitrile gloves.
Body protection:	Recommended: Long sleeved coveralls.
Respiratory protection:	Under normal use conditions, no hazards would be expected.

Section 9. Physical and Chemical Properties

Physical Properties

Physical State:	Liquid
Colour:	Colourless
Odor:	Slight, ammonia
Odor threshold:	Not Determined
pH:	9.2 - 9.8
Melting / Freezing Point:	-11.5°C
Boiling Point:	100°C
Flash point:	Not Applicable
Flammability:	Not Applicable
Lower Explosive Limit:	Not Applicable
Upper Explosive Limit:	Not Applicable
Vapor Pressure:	Not Determined
Density:	1.09 g/cm ³
Solubility in water:	> 100g / L
Partition Coefficient: n-octanol/water:	Not Determined
Viscosity:	Dynamic: 1.4 mPa.s @ 20°C
Explosive Properties:	None
Oxidizing Properties:	None

Section 10. Stability and Reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability:	Stable
Potential for Hazardous Reactions:	Under normal storage and use there are none.
Incompatible materials:	Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride. Avoid oxidizing agents, acids, alkalis, nitrites, and nitrates.
Hazardous Decomposition:	Under normal conditions of storage and use, there are none

Section 11. Toxicological Information

11.1. Information on Toxicological Effects

Symptoms/Injuries After Inhalation: Prolonged exposure to liquid may cause mild irritation.

Symptoms/Injuries After Skin Contact: May cause mild skin irritation.

Symptoms/Injuries After Eye Contact: Prolonged exposure to liquid may cause mild irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Acute Toxicity:

LD50 and LC50 Data:

Urea (57-13-6)	
LD50 Oral Rat	8471 mg/kg

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation: Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization: Contains no known skin sensitizers.

Germ Cell Mutagenicity: No mutagenic effect.

Carcinogenicity: No carcinogenic effect. Does not contain any substances classified by OSHA, NTP, ACGIH or IARC as carcinogens.

Specific Target Organ Toxicity (Repeated Exposure): Based on available data, the classification criteria are not met.

Reproductive Toxicity: Not considered to be toxic to the reproductive system or development.

Specific Target Organ Toxicity (Single Exposure): Based on available data, the classification criteria are not met.

Aspiration Hazard: Based on available data, the classification criteria are not met.

Section 12. Ecological Information

Toxicity: No known significant effects or critical hazards

Persistence and Degradability: No known significant effects or critical hazards

Bio accumulative potential: No known significant effects or critical hazards

Mobility in Soil

Mobility: This product may move with surface or groundwater flows because its water solubility is high.

Other adverse effects: No known significant effects or critical hazards

Section 13. Disposal Considerations

Product Disposal of this product, solutions, and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport Information

TDG: Not Regulated.

DOT: Not Regulated.

Section 15. Regulatory Information

Canadian Lists

Canada WHMIS
Canadian NPRI: Uncontrolled product according to WHMIS
None of the components are listed.

CEPA Toxic Substances: None of the components are listed.

Section 16. Other Information

History

Date of Issue:	04/01/2023
Date of Revision:	04/07/2025
Date of Previous Issue:	04/01/2023
Version:	1.01
Prepared by:	EZ DEF Ltd

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