CONSOLIDATED BIOFUELS Ltd.
7651 Vantage Way, Delta, BC, 604-946-7626

Automotive D.E.F. (DIESEL EXHAUST FLUID)

Safety Data Sheet

Preparation Date: 1/10/2023 Version: 1

SECTION 1: Identification

1.1. Product identifier

Product name : D.E.F.(Diesel Exhaust Fluid)

Product code : 1-85-1333

1.2. Recommended use and restrictions on use

Recommended use : Solution for NO_x reduction in SCR system

Restriction on use : No data available

1.3. Supplier

Manufacturer
CONSOLIDATED BIOFUELS LTD.
7651 VANTAGE WAY
V4G 1A6
T 604-946-7626

1.4. Emergency telephone number

Emergency number : Canutec 1-888-CAN-UTEC (226-8832) or Cellular: *666

SECTION 2: Hazard identification

2.1. Classification of the mixture

Classification (GHS-CA)

Not classified

2.2. GHS Label elements, including precautionary statements

Signal word (GHS-CA) : Not applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-CA)

No additional information available

SECTION 3: Composition/information on ingredients

Name	Identifier	% By weight
Water	(CAS-No.) 7732-18-5	66- 68
Urea	(CAS-No.) 57-13-6	32 - 34

SECTION 4: First-aid measures

4.1. Description of first aid measures

Inhalation : If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If symptoms persist, get medical attention.

Skin contact : Wash with plenty of water. If skin irritation occurs: Get medical attention.

Eye contact : In case of contact with eyes, rinse immediately with plenty of water. If irritation develops, get medical attention.

Ingestion : Give plenty of water to drink. Do not induce vomiting. Get medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : None anticipated.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Unlikely to be required but, if necessary, treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Dry chemical, CO2, or water spray or regular foam.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Strong water jet.

5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products : Carbon oxides (CO, CO_2). Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Fire fighters should wear complete protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and procedures : Provide adequate ventilation. Put on appropriate personal protective equipment.

6.2. Methods and materials for containment and cleaning up

For containment and cleaning up : Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Ensure good ventilation of the work areas. Do not get in eyes, on skin.

Hygiene measures : Do not eat, drink, or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep away from heat and flame.

Incompatible materials : Strong oxidizing agents. Strong acids. Strong bases.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2. Appropriate engineering controls

Appropriate engineering controls	:	Ensure good ventilation.
Environmental exposure controls	:	Avoid release large quantities to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear impervious gloves.

Eye protection:

Wear protective glasses.

Skin and body protection:

Skin contact should be prevented using suitable protective clothing, and footwear.

Respiratory protection:

Normally no personal respiratory protection is necessary. If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator.

General hygiene considerations:

Do not eat, drink or smoke when using this product. Wash hand before breaks and after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid.
Colour	:	Colorless
Odour	:	Characteristic ammonia odor
Odour threshold	:	No data available
pH	:	9.5 -10
Relative evaporation rate (butylacetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	No data available
Melting point	:	No data available
Freezing point	:	-11 °C
Boiling point	:	>100 °C
Flash point	:	No data available
Flammability limit in air		
Upper flammability limit	:	No data available
Lower flammability limit	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available

Vapour pressure	:	No data available
Vapour pressure at 50 °C	:	No data available
Specific gravity		1.08-1.09
Solubility	:	No data available
Viscosity	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Explosive limits	:	No data available

9.2. Other information

None :

SECTION 10: Stability and reactivity

Reactivity	:	Non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	Not established.
Incompatible materials	:	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	:	No hazardous decomposition products known at room temperature.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Urea (57-13-6)	
LD50/oral/rat	14300 mg/kg bodyweight

Skin corrosion/irritation	:	Not classified, pH=9-10
Serious eye damage/irritation	:	Not classified, pH=9-10
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified

11.2. Other information

None

SECTION 12: Ecological information

12.1. Toxicity

Urea (57-13-6)	
LC50 fish	>6810 mg/l (Leuciscus idus, 96 h)
EC50 Daphnia	>10000 mg/l (Daphnia magna, static system, fresh water, 24h)

12.2. Persistence and degradability

Urea (57-13-6)	
Persistence and degradability	Readily biodegradable in water.
ThOD	0.27 g O_2/g substance

12.3. Bioaccumulative potential

Urea (57-13-6)	
Log Pow	<-1.73
Bio accumulative potential	Low penitential for bioaccumulation (BCF<500)

12.4. Mobility in soil

Urea (57-13-6)	
Log Koc	-1.43- -1.19
Mobility in soil	High mobile in soil

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Regional legislation (waste) : If recycling is not practicable, disposal must be done according to official regulations. Avoid release to the environment.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG: Not regulated.

14.2. Transport information/DOT

Not regulated

14.3. Air and sea transport

IMDG

Not regulated

IATA

Not regulated

SECTION 15: Regulatory information

15.1. National regulations

Urea (57-13-6)
Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Urea (57-13-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

Date of issue : 1/10/2023