



EcoPro™ Diesel Replacement

Material Safety Handling Data Sheet

1: CHEMICAL PRODUCT

General Product Name: EcoPro™ Diesel Replacement
Product Description: Methyl Esters from lipid sources

2: COMPOSITION / INFORMATION ON INGREDIENTS

This product may contain traces of hydrocarbons and other hazardous materials.

Due to the fact that the Waste Oil products used in the manufacturing process, are collected and stored outside of our control, the exact chemical contents cannot be guaranteed without extensive laboratory testing of every delivery received. Waste products are purchased from 3rd party suppliers in good faith, as WASTE SUNFLOWER OIL.

3: HAZARDOUS IDENTIFICATION

Potential Health Effects:

INHALATION: Negligible, unless heated to produce vapours. Vapours or finely misted materials may irritate the mucous membranes and cause irritation, dizziness, and nausea. Remove to fresh air.

EYE CONTACT: May cause irritation. Irrigate eye with water for at least 15-20 minutes. Seek medical attention if symptoms persist.

SKIN CONTACT: Prolonged or repeated contact is not likely to cause skin irritation. Material is sometimes encountered at elevated temperatures. Thermal burns are possible.

INGESTION: Hazardous if ingested, incidental to industrial exposure.

4: FIRST AID MEASURES:

EYES: Irrigate eyes with a heavy stream of water for at least 15-20 minutes.

SKIN: Wash exposed areas of the body with soap and water.

INHALATION: Remove from area of exposure; seek medical attention if symptoms persist.

INGESTION: Give one or two glasses of water to drink. If gastro-intestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person)



5: FIRE FIGHTING MEASURES:

Flash Point: 115°C
Flammability Limits: None known

EXTINGUISHING MEDIA:

Dry chemical, foam, halon, CO₂, water spray (FOG). Water stream may splash the burning liquid and spread fire.

SPECIAL FIRE FIGHTING PROCEDURES:

Use water spray to cool drums and containers exposed to fire or heat.

6: ACCIDENTAL RELEASE MEASURES SPILL CLEAN-UP PROCEDURES:

Remove sources of ignition, contain spill to smallest area possible. Stop leak if possible. Pick up small spills with absorbent materials and dispose of properly to avoid spontaneous combustion. Recover large spill for salvage or disposal. Wash hard surfaces with a safe solvent or detergent solution, to remove remaining oil film. Greasy nature will result in a slippery surface.

7: HANDLING AND STORAGE:

Store in closed containers between 5°C and 58°C. Keep away from OXODIZING agents, excessive heat, and ignition sources. Do not store or use near heat, or open flame. Store out of direct sunlight. Do not puncture, drag or slide containers. Fuel containers are not pressure vessels; never use pressure to empty.

8: PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point, 760 mm Hg:	>200°C
Specific Gravity:	0.850
Vapour Pressure, mm Hg:	<2
Vapour Density, Air=1:	>1
Volatiles, % by volume:	<10
Solubility in H ₂ O, % by volume:	Insoluble
Evaporation Rate, Butyl Acetate=1:	<1
Appearance and Odour:	Pale yellow to light brown liquid, mild odour.



<u>Property</u>	<u>Units</u>	<u>Limits- Min-Max</u>
Density @20° Celsius	kg/cum	0.840-0.875
Viscosity @40° Celsius	sqmm	4.5-6.0
Flash Point	deg Celsius	85°-115°
Sulphur Content	mg/kg	max 10
Carbon Residue	% weight	max 0.3
Cetane Number	N/A	min 50
Sulphated Ash Content	% (m/m)	max 0.02
Water Content	mg/kg	max 500
Copper Strip Corrosion (3 hr @50°C)	rating	Class 1b
Oxidation Stability, 110° Celsius	hour	min 6
Ester Content	% (m/m)	min 96.5
Acid Value	mg KOH or NaOH/g	max 0.5
Methanol Content	% (m/m)	max 0.2
Monoglyceride Content	% (m/m)	max 0.5
Diglyceride Content	% (m/m)	max 0.5
Triglyceride Content	% (m/m)	max 0.5
Free Glycerol	% (m/m)	max 3.0
Total Glycerol	% (m/m)	max 5.0
Phosphorous Content	mg/kg	mag 4
Alkaline Metals (Sodium & Potassium combined) Na+K	ppm	max 005
Iodine Value	g	max 100
Polyunsaturated (>=4 double bonds) methyl esters	% (m/m)	max 2

