Safety Data Sheet

Greenergy

1.0 IDENTIFICATION OF THE SUBSTANCE / MIXTURE

1.1 Product Identification

Substance	**Fuels, diesel**
Commercial Product Name	**Marine Diesel (Ultra Low Sulphur)**
Synonyms	**MGO, ULSD, ADO**
Specific Use(s)	**Fuel for use in marine diesel engines designed to run on automotive diesel**
CAS	**68334-30-5**

1.2 Details of the supplier of the SDS

Company	**Greenergy Fuels Canada** **14 King Street, Suite 250** **Saint John** **New Brunswick** **E2L 1G2** **CANADA**
Telephone No.	888 834 1980
Email	msds-info@greenergy.com

1.3 Emergency telephone number

Emergency telephone number (CANUTEC)	888 CAN UTEC (226 8832), or **613-996-6666** From Cellular phone only ***666**
Availability	**24hrs**

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to GHS

Skin Irrit. 2	H315
Acute Tox. 4 (Inhalation)	H332
Carc. 2	H351
Asp.Tox. 1	H304
STOT RE 2	H373
Aquatic Chronic 2	H411

For the full text of classification codes and/or H-phrases in this section, see section 2.2 below

2.2 Label elements

Labelling according to GHS

Hazard pictograms:

GHS08 GHS07 GHS09

Signal word: Danger

Hazard statements:
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H332 - Harmful if inhaled.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:
P260 - Do not breathe dust/fumes/gas/mist/vapours/spray.
P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P301+P310 - If swallowed, immediately call a doctor.
P331 - Do NOT induce vomiting
P403 + P235 – Store in a well ventilated place. Keep cool.
P501 - Dispose of contents/container to hazardous or special waste collection point.

Other Hazards

Not relevant

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Substance name	Product Identifier	%	Classification according to GHS
Fuels, diesel	CAS no: 68334-30-5	80 - 100	H315 - Skin Irrit. 2 H332 - Acute Tox. 4 (Inhalation) H351 - Carc. 2 H373 - STOT RE 2 H411 - Aquatic Chronic 2 H304 - Asp.Tox. 1

The exact concentrations of the above listed chemicals are being withheld as a trade secret.
For the full text of classification codes and/or H-phrases in this section, see section 2.2.

4.0 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:
Keep at rest.
Move to fresh air.
Consult a physician if necessary.

Skin contact:
After contact with skin, wash immediately with plenty of soap and water.
If skin irritation persists, call a physician.

Eye contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Obtain medical attention.

Ingestion:
Do NOT induce vomiting.
Rinse mouth.
Drink plenty of water.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:
May cause irritation of respiratory tract. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Skin contact:
Repeated exposure may cause skin dryness or cracking.

Eye contact:
Contact with eyes may cause irritation.

Ingestion:
Harmful: may cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3 Indication of immediate medical attention and special treatment needed

No data available

5.0 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:	Use dry chemical, CO2, water spray or alcohol resistant foam.
Extinguishing media which shall not be used for safety reasons:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Fire Hazard:	Combustible material
Specific hazards:	Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. The pressure in sealed containers can increase under the influence of heat. Cool containers / tanks with water spray. Burning produces noxious and toxic fumes. Possible decomposition products are: COx, H2S, Sox. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3 Advice for firefighters

Special protective equipment for firefighters:	Wear personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	Wear personal protective equipment. See also section 8. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Do not smoke.

6.2 Environmental precautions

Environmental precautions:	Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up:	Remove all sources of ignition. Do not use tools which may produce sparks. Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dam up. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Dispose of in accordance with local regulations.

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling:	Wear personal protective equipment. See also section 8. Always replace cap after use. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Use only in well-ventilated areas. Keep away from food, drink and animal feeding stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Storage:	Do not store near or with any of the incompatible materials listed in section 10. Store in original container. Keep tightly closed in a dry, cool and well- ventilated place. Keep away from open flames, hot surfaces and sources of ignition.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product. Do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Use only in area provided with appropriate exhaust ventilation.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component:	Fuels, diesel (68334-30-5)
TLV-TWA:	100 (mg/m³) (ACGIH) (inhalable fraction and vapour)

8.2 Exposure controls

Respiratory protection:	Ensure adequate ventilation. Not required under normal use. In case of insufficient ventilation wear suitable respiratory equipment. (Respiratory equipment selection should be informed by relevant industry standards such as CSA Z94.4 Selection, Use, and Care of Respirators)
Hand protection:	Wear chemically resistant gloves approved for use with Diesel. The selection of gloves for a specific application and duration of use in a working area, should also consider other factors, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection:	Safety glasses (CSA Z94.3 Eye and Face Protectors)

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour:	pale yellow
Odour:	characteristic
Melting point/freezing point:	-40°C to +6°C
Boiling point or initial boiling point and boiling range:	ca. 170 - 370 °C
Flammability:	not applicable
Explosive properties:	not applicable
Flash point:	> 60°C
Auto-ignition temperature:	≥ 225°C
Decomposition temperature:	not applicable
pH:	not applicable
Kinematic viscosity:	2.0 – 4.5 mm²/s @ 40°C

Solubility:	slightly soluble in water (<20 mg/l, 20°C)
Partition coefficient n-octanol/water (log value):	~ > 3
Vapour pressure:	< 1 kPa @ 20°C
Density and/or relative density:	820 - 845 kg/m³ @ 15°C
Relative vapour density:	not applicable
Particle characteristics:	not applicable

9.2 Other information

No data available

10.0 STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity: Flammable liquid

See also section 10.5

10.2 Chemical stability

Stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

10.5 Incompatible materials

Incompatible materials: Incompatible with strong acids, oxidizing agents, and bases.

10.6 Hazardous decomposition products

Hazardous decomposition products: Burning produces noxious and toxic fumes. Possible decomposition products are: COx, H2S, Sox.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

General Information

Acute toxicity

Component:	**Fuels, diesel (68334-30-5)**
LD50/oral/rat:	> 5000 mg/kg
Inhalation:	May cause irritation of respiratory tract. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Skin contact:	Repeated exposure may cause skin dryness or cracking.
Eye contact	Contact with eyes may cause irritation.
Ingestion:	Harmful: may cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Chronic toxicity:	Limited evidence of a carcinogenic effect.
Further information	No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Component:	Fuels, diesel (68334-30-5)
LC50/96h/fish:	54 mg/l (Jordanella floridae)

12.2 Persistence and degradability

Persistence and degradability: No information available.

12.3 Bioaccumulative potential

Bioaccumulation: May cause bioaccumulation.
Partition coefficient: ~ > 3 (n-octanol/water)

12.4 Mobility in soil

Mobility: slightly soluble

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13.0 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products:	Where possible, recycling via a competent waste oil recovery contractor is preferred to energy recovery, incineration or landfill. Dispose of in accordance with local and national regulations.
Contaminated packaging:	Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate. Where possible, re-use or recycle.
Sewage disposal:	DO NOT dispose of into sewage systems or surface water drainage systems.

14. TRANSPORT INFORMATION

14.1 UN Number

UN number : 1202

14.2 UN proper shipping name

Proper shipping name : GAS OIL / DIESEL FUEL / HEATING OIL, LIGHT

14.3 Transport hazard class(es)

14.3.1 Overland transport

Class: 3 - Flammable liquids

Danger labels:

3 - Flammable liquid

ERG code: 128

14.3.2 Transport by sea

Class:	3 - Flammable liquids
Danger labels:	3 - Flammable liquid
EmS:	F-E, S-E

14.3.3 Air transport

Class:	3 - Flammable liquids
Danger labels:	3 - Flammable liquid
Packing Instruction (cargo aircraft):	366

Based on the flashpoint, this product is not regulated in small containers (450 L or less) when shipped on a road vehicle, a railway vehicle or a vessel on a domestic voyage, as the flashpoint is above 37.8 C.

14.4 Packing group

Packing group: III

14.5 Environmental hazards

Marine pollutant: P

Other information (transport) : No supplementary information available.

14.6 Special precautions for users

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

15.0 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

16.0 OTHER INFORMATION

Sources of key data used to compile the datasheet:	Registrations for EU and UK REACH, ECHA hazardous chemicals portal and ACGIH
Revision:	1.0
Date:	May 2025
Updated sections:	New SDS for Marine diesel, adapted from ULSD SDS version 2.0

List of Abbreviations:

SDS	Safety Data Sheet
ECHA	European Chemicals Agency
ACGIH	American Conference of Governmental Industrial Hygienists
CLP	Classification, Labelling and Packaging Regs.
GHS	Globally Harmonised System [of classification]
HVO	Hydrogenated Vegetable Oil
REACH	Registration, Evaluation and Authorisation of Chemicals
ADR	Agreement for the transportation of dangerous goods by road
ADN	International Carriage of Dangerous Goods by Inland Waterways
RID	International Carriage of Dangerous Goods by Rail
PBT	Persistent, Bio-accumulative and Toxic
vPvB	Very Persistent and very Bio-accumulative
PCA	Passenger Carrying Aircraft
CAO	Cargo Aircraft Only

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