

SAFETY DATA SHEET

BIODIESEL REGULAR & PREMIUM BLEND B2-B50 ULTRA LS 2 CLEAR & DYED



DENV00000092

Version 1.0

Revision Date 2015/05/05

Print Date 2017/02/27

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BIODIESEL REGULAR & PREMIUM BLEND B2-B50 ULTRA
LS 2 CLEAR & DYED

Product code : 101753, 101751, 100820, 100819, 100829, 100828, 100816,
100815, 100825, 100824, 101685, 101683

Manufacturer or supplier's details

Suncor Energy (U.S.A.)
5801 Brighton Blvd.
Commerce City Colorado 80022
United States

Emergency telephone number : Suncor Energy: +1 403-296-3000;
CHEMTREC Transport Emergency: 1-800-424-9300 or 1-
703-527-3887 (call collect)

Recommended use of the chemical and restrictions on use

Recommended use : Motor fuels.

Prepared by : Product Safety: +1 905-804-4752

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION	
Appearance	liquid
Colour	Amber to red
Odour	Kerosene

GHS Classification

Flammable liquids : Category 3
Acute toxicity (Inhalation) : Category 4
Skin irritation : Category 2
Carcinogenicity : Category 1B
Specific target organ toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)
Aspiration hazard : Category 1

SAFETY DATA SHEET

**BIODIESEL REGULAR & PREMIUM BLEND B2-B50 ULTRA
LS 2 CLEAR & DYED**


DENV00000092

Version 1.0

Revision Date 2015/05/05

Print Date 2017/02/27

GHS Label element

Hazard pictograms



Signal word

: Danger

Hazard statements

: H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H350 May cause cancer.

Precautionary statements

: **Prevention:**
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ eye protection/ face protection.
 P281 Use personal protective equipment as required.
Response:
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P331 Do NOT induce vomiting.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

**BIODIESEL REGULAR & PREMIUM BLEND B2-B50 ULTRA
LS 2 CLEAR & DYED**

DENV00000092

Version 1.0

Revision Date 2015/05/05

Print Date 2017/02/27

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Primary Routes of Entry	: Inhalation Ingestion Skin contact Skin Absorption Eye contact
Target Organs	: Respiratory system Central nervous system
Inhalation	: Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Inhalation of vapours may cause drowsiness, headache, dizziness, and disorientation. May cause nose, throat, and lung irritation. Inhalation may cause central nervous system effects. May cause respiratory tract irritation. May be fatal if inhaled in large quantities. Extreme exposures may cause unconsciousness.
Skin	: Causes skin irritation. The product may be absorbed through the skin.
Eyes	: May cause eye irritation.
Ingestion	: Harmful or fatal if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Chronic Exposure	: Repeated or prolonged exposure to the substance can produce target organ damage. Prolonged skin contact may result in skin irritation and skin cancer.
Aggravated Medical Condition	: Pre-existing medical conditions aggravated by exposure- disorders or diseases of the skin, eye, nervous system, respiratory and/or pulmonary system, lung (e.g. asthma-like conditions).

Carcinogenicity:**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**BIODIESEL REGULAR & PREMIUM BLEND B2-B50 ULTRA
LS 2 CLEAR & DYED**

DENV00000092

Version 1.0

Revision Date 2015/05/05

Print Date 2017/02/27

OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
distillates (petroleum), hydrotreated middle	64742-46-7	10 - 79 %
kerosine (petroleum), hydrodesulfurized	64742-81-0	20 - 40 %

SECTION 4. FIRST AID MEASURES

If inhaled	: Move to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical advice.
In case of skin contact	: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Seek medical advice.
In case of eye contact	: Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
If swallowed	: Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.
Most important symptoms and effects, both acute and delayed	: First aider needs to protect himself.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry chemical
Alcohol-resistant foam
Water spray
fog
Foam
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : No information available.
- Specific hazards during firefighting : Cool closed containers exposed to fire with water spray.
- Hazardous combustion products : Carbon oxides (CO, CO₂), sulphur oxides (SO_x), smoke and irritating vapours as products of incomplete combustion.
- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus when fire fighting in confined space.
Wear structural fire fighters protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Material can create slippery conditions.
- Environmental precautions : Do not allow uncontrolled discharge of product into the environment.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Prevent further leakage or spillage if safe to do so.
Remove all sources of ignition.
Soak up with inert absorbent material.
Scrape or gather material and place in a suitable container for disposal.
Non-sparking tools should be used.
Ensure adequate ventilation.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Try to prevent the material from entering drains or water courses.
Prevent entry into basements or confined areas.
Ensure product is not present at a concentration level above the TLV.

**BIODIESEL REGULAR & PREMIUM BLEND B2-B50 ULTRA
LS 2 CLEAR & DYED**

DENV00000092

Version 1.0

Revision Date 2015/05/05

Print Date 2017/02/27

Check TLV on MSDS or consult local authorities.
For dispersion properties, refer to Section 9, Solubility.
Contact the proper local authorities.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling** : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Use only with adequate ventilation.
Avoid contact with skin, eyes and clothing.
Do not ingest.
Keep away from heat and sources of ignition.
Keep container closed when not in use.
Never siphon by mouth.
If ingested, seek medical advice immediately and show the container or the label.
Ensure all equipment is electrically grounded before beginning transfer operations.
- Conditions for safe storage** : Store in original container.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep in a dry, cool and well-ventilated place.
Keep in properly labelled containers.
To maintain product quality, do not store in heat or direct sunlight.
Store in a place accessible by authorized persons only.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
kerosine (petroleum), hydrodesulfurized	64742-81-0	TWA	200 mg/m ³	ACGIH

- Engineering measures** : Adequate ventilation to ensure that Occupational Exposure Limits are not exceeded.
Mechanical ventilation recommended.
Ensure that eyewash station and safety shower are proximal to the work-station location.

Personal protective equipment

- Respiratory protection** : Concentration in air determines protection needed.
Half-mask air purifying respirator with organic vapor cartridges is acceptable to 10 times the exposure limit.
Full-face air purifying respirator with organic vapor cartridges is acceptable to 50 times the exposure limit.

**BIODIESEL REGULAR & PREMIUM BLEND B2-B50 ULTRA
LS 2 CLEAR & DYED**

DENV00000092

Version 1.0

Revision Date 2015/05/05

Print Date 2017/02/27

Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures above 50 times the exposure limit.
If exposure is above IDLH (immediately dangerous to life & health) or there is the possibility of an uncontrolled release or exposure levels are unknown then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA.

Hand protection	
Material	: neoprene, nitrile, polyvinyl alcohol (PVA), Viton(R). Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.
Remarks	: The following materials are acceptable: PVC 4H gloves
Eye protection	: Wear monogoggles or safety glasses when handling the product. Wear face-shield if splashing hazard is likely.
Skin and body protection	: Wear as appropriate: Flame retardant protective clothing Boots If contact is unavoidable, wear chemical resistant clothing.
Protective measures	: Wash contaminated clothing before re-use.
Hygiene measures	: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: Amber to red
Odour	: Kerosene
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: -36 - 0 °C (-33 - 32 °F)
Boiling point/boiling range	: 180 - 349 °C (356 - 660 °F)
Flash point	: 57 °C (135 °F) Method: Pensky-Martens closed cup

SAFETY DATA SHEET

BIODIESEL REGULAR & PREMIUM BLEND B2-B50 ULTRA LS 2 CLEAR & DYED



DENV00000092

Version 1.0

Revision Date 2015/05/05

Print Date 2017/02/27

Fire Point	: No data available
Auto-Ignition Temperature	: 257 °C (495 °F)
Auto-ignition temperature	: 257 °C
Evaporation rate	: 600 Ethyl Ether = 1
Flammability	: Combustible, avoid open flames, sparks, static discharge and intense heat.
Upper explosion limit	: 5 %(V)
Lower explosion limit	: 0.7 %(V)
Vapour pressure	: 0.20 kPa (20 °C / 68 °F)
Relative vapour density	: 8Air = 1
Density	: <= 0.80 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: Insoluble in, cold water, hot water
Partition coefficient: n-octanol/water	: No data available
Viscosity	
Viscosity, kinematic	: 1.30 - 4.10 mm ² /s (40 °C / 104 °F)
Explosive properties	: Explosive in presence of oxidizing materials. Containers may explode in heat of fire. Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Vapours may form explosive mixtures with air.

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	: Stable under normal conditions.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Reactive with oxidising agents. Slightly reactive with metals.
Hazardous decomposition products	: Carbon monoxide and asphyxiants on combustion.

SECTION 11. TOXICOLOGICAL INFORMATIONInformation on likely
routes of exposureInhalation
Ingestion
Skin contact
Skin Absorption
Eye contact**Acute toxicity****Product:**

Acute oral toxicity Remarks: No data available

Acute inhalation toxicity Remarks: No data available

Acute dermal toxicity Remarks: No data available

Components:**kerosine (petroleum), hydrodesulfurized:**

Acute oral toxicity LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity LC50 (Rat): > 5.2 mg/l
Exposure time: 4 h

Acute dermal toxicity LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation**Product:**

Remarks: No data available

Serious eye damage/eye irritation**Product:**

Remarks: No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity**Product:**

Remarks: American Petroleum Institute studies have shown that kerosene produced skin cancer in mice when repeatedly applied without washing between applications for 2 years., The National Institute of Occupational Safety & Health (NIOSH) regards whole diesel exhaust as a potential cause of occupational lung cancer based on positive laboratory studies & limited evidence in humans, any risk would depend on duration and level of exposures., Contains a material which has caused skin tumors in lab animals.

Reproductive toxicity**STOT - single exposure****STOT - repeated exposure**No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : Remarks: No data available

Toxicity to bacteria : Remarks: No data available

Persistence and degradability**Product:**

Biodegradability : Remarks: No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Offer surplus and non-recyclable solutions to a licensed disposal company.
Waste must be classified and labelled prior to recycling or

**BIODIESEL REGULAR & PREMIUM BLEND B2-B50 ULTRA
LS 2 CLEAR & DYED**

DENV00000092

Version 1.0

Revision Date 2015/05/05

Print Date 2017/02/27

disposal.
 Send to a licensed waste management company.
 Dispose of as hazardous waste in compliance with local and national regulations.
 Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

SECTION 14. TRANSPORT INFORMATION**International Regulation****IATA-DGR**

UN/ID No. : 1993
 Proper shipping name : Flammable liquid, n.o.s.
 Class : 3
 Packing group : III
 Labels : 3
 Packing instruction (cargo aircraft) : 366

IMDG-Code

UN number : 1993
 Proper shipping name : FLAMMABLE LIQUID, N.O.S.
 Class : 3
 Packing group : III
 Labels : 3
 EmS Code : F-E, S-E
 Marine pollutant : no

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

Not applicable for product as supplied.

49 CFR

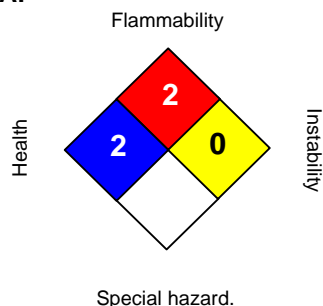
UN/ID/NA number : 1993
 Proper shipping name : Flammable liquids, n.o.s.
 Class : 3
 Packing group : III
 Labels : 3
 ERG Code : 128
 Marine pollutant : no

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION**The components of this product are reported in the following inventories:**

TSCA : Listed on TSCA
DSL : All components of this product are on the Canadian DSL.

SECTION 16. OTHER INFORMATION**Further information****NFPA:****HMIS III:**

HEALTH	2*
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

For Copy of (M)SDS : For Product Safety Information: 1 905-804-4752

Prepared by : Product Safety: +1 905-804-4752

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.