

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

- **Biodiesel B100**

Synonyms

- B100 Biodiesel; Canola Biodiesel; Rapeseed Biodiesel; Soy Biodiesel; Tallow Biodiesel; Virgin Biodiesel

CAS Number

- 67784-80-9

SDS Number/Grade

- 0028NOR001

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Please provide product use

Details of the supplier of the safety data sheet

Manufacturer

- Northern Tier Energy
301 St. Paul Park Road
St. Paul Park, MN 55071
United States
www.ntenergy.com

Telephone (General) • 651-459-9771

Emergency telephone number

Chemtrec

- 800-424-9300

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Not classified

Label elements

OSHA HCS 2012

Hazard statements • No label element(s) required

Other hazards

OSHA HCS 2012

- This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Canada

According to: WHMIS

Classification of the substance or mixture

WHMIS • Not classified

Label elements

WHMIS • No label element(s) required.

Other hazards

WHMIS • In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Biodiesel (Rapeseed derived)	CAS:73891-99-3	0% TO 100%	NDA	OSHA HCS 2012: Not Classified	NDA
Biodiesel (Canola derived)	CAS:129828-16-6	0% TO 100%	NDA	OSHA HCS 2012: Not Classified	NDA
Fatty acids, tallow, methyl esters	CAS:61788-61-2	0% TO 100%	NDA	OSHA HCS 2012: Not Classified	NDA
Soybean oil, Me ester	CAS:67784-80-9	0% TO 100%	NDA	OSHA HCS 2012: Not Classified	NDA
Biodiesel (Fatty Acid, Methyl Ester)	CAS:68937-84-8	0% TO 100%	NDA	OSHA HCS 2012: Not Classified	NDA

Section 4: First-Aid Measures**Description of first aid measures****Inhalation**

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

- Wash skin with soap and water. Take off contaminated clothing. If irritation develops and persists, get medical attention.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- Do NOT induce vomiting. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

- All treatments should be based on observed signs and symptoms of distress in the

patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.
LARGE FIRE: Water spray, fog or regular foam.

Unsuitable Extinguishing Media • No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • This product is not a combustible liquid per the OSHA Hazard Communication Standard, but will ignite and burn at temperatures exceeding the flash point.

Hazardous Combustion Products • No data available

Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions • Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures • Keep unauthorized personnel away. Stay upwind.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures • Stop leak if you can do it without risk.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling • Use good safety and industrial hygiene practices. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage • Keep container tightly closed. Store in a cool, dry, well-ventilated place.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines • Exposure limits/guidelines have not been established for this product or its

ingredients.

Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields.

Skin/Body

- Not required under normal operating conditions.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Amber liquid with a slight odor.
Color	Amber	Odor	Slight
Odor Threshold	No data available		
General Properties			
Boiling Point	> 600 F(> 315.5556 C)	Melting Point/Freezing Point	-1 C(30.2 F)
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 0.8 Water=1 C.A.	Water Solubility	Negligible
Viscosity	No data available		
Volatility			
Vapor Pressure	< 1 mmHg (torr) @ 100 F(37.7778 C)	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	> 300 F(> 148.8889 C) PMCC (Pensky-Martins Closed Cup)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Excess heat.

Incompatible materials

- Strong oxidizers such as nitrates, chlorates, peroxides.

Hazardous decomposition products

- Carbon monoxide and carbon dioxide.

Section 11 - Toxicological Information**Information on toxicological effects**

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • No data available
Acute toxicity	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Skin sensitization	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available

Potential Health Effects**Inhalation**

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Skin

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Eye

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Ingestion

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Section 12 - Ecological Information**Toxicity**

- Non-mandatory section - information about this substance not complied for this reason.

Persistence and degradability

- Non-mandatory section - information about this substance not complied for this reason.

Bioaccumulative potential

- Non-mandatory section - information about this substance not complied for this reason.

Mobility in Soil

- Non-mandatory section - information about this substance not complied for this reason.

Other adverse effects

- Non-mandatory section - information about this substance not complied for this reason.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

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

SARA Hazard Classifications • None

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Biodiesel (Canola derived)	129828-16-6	Yes	No	Yes
Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Yes	No	Yes
Biodiesel (Rapeseed derived)	73891-99-3	Yes	No	Yes
Fatty acids, tallow, methyl esters	61788-61-2	Yes	No	Yes

Soybean oil, Me ester	67784-80-9	Yes	No	Yes
-----------------------	------------	-----	----	-----

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed
• Biodiesel (Canola derived)	129828-16-6	Not Listed
• Biodiesel (Fatty Acid, Methyl Ester)	68937-84-8	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Fatty acids, tallow, methyl esters	61788-61-2	Not Listed
• Soybean oil, Me ester	67784-80-9	Not Listed
• Biodiesel (Rapeseed derived)	73891-99-3	Not Listed

- | | | |
|--|-------------|------------|
| • Biodiesel (Canola derived) | 129828-16-6 | Not Listed |
| • Biodiesel (Fatty Acid, Methyl Ester) | 68937-84-8 | Not Listed |

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

- | | | |
|--|-------------|------------|
| • Fatty acids, tallow, methyl esters | 61788-61-2 | Not Listed |
| • Soybean oil, Me ester | 67784-80-9 | Not Listed |
| • Biodiesel (Rapeseed derived) | 73891-99-3 | Not Listed |
| • Biodiesel (Canola derived) | 129828-16-6 | Not Listed |
| • Biodiesel (Fatty Acid, Methyl Ester) | 68937-84-8 | Not Listed |

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

- | | | |
|--|-------------|------------|
| • Fatty acids, tallow, methyl esters | 61788-61-2 | Not Listed |
| • Soybean oil, Me ester | 67784-80-9 | Not Listed |
| • Biodiesel (Rapeseed derived) | 73891-99-3 | Not Listed |
| • Biodiesel (Canola derived) | 129828-16-6 | Not Listed |
| • Biodiesel (Fatty Acid, Methyl Ester) | 68937-84-8 | Not Listed |

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

- | | | |
|--|-------------|------------|
| • Fatty acids, tallow, methyl esters | 61788-61-2 | Not Listed |
| • Soybean oil, Me ester | 67784-80-9 | Not Listed |
| • Biodiesel (Rapeseed derived) | 73891-99-3 | Not Listed |
| • Biodiesel (Canola derived) | 129828-16-6 | Not Listed |
| • Biodiesel (Fatty Acid, Methyl Ester) | 68937-84-8 | Not Listed |

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

- | | | |
|--|-------------|------------|
| • Fatty acids, tallow, methyl esters | 61788-61-2 | Not Listed |
| • Soybean oil, Me ester | 67784-80-9 | Not Listed |
| • Biodiesel (Rapeseed derived) | 73891-99-3 | Not Listed |
| • Biodiesel (Canola derived) | 129828-16-6 | Not Listed |
| • Biodiesel (Fatty Acid, Methyl Ester) | 68937-84-8 | Not Listed |

Section 16 - Other Information**Revision Date**

- 09/September/2015

Preparation Date

- 09/September/2015

Disclaimer/Statement of Liability

- The information and recommendations contained herein are based upon tests believed to be reliable. However, Northern Tier Energy does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. Northern Tier Energy assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

Key to abbreviations

NDA = No data available