



MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT & SUPPLIER IDENTIFICATION



SUPPLIER	
NAME	The National Biofuels Group Pty Ltd
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EMERGENCY CONTACT	13 11 26 (Poisons Information Centre, 24 hours per day, 7 days per week Australia-wide)
PRODUCT	
NAME	SOYBIODIESEL®
DESCRIPTION	Methyl Ester from lipid source
SYNONYMS	Methyl soyate, Soy methyl ester, Soybean oil methyl ester, SME, Fatty acid methyl ester, B100 Soybiodiesel
CAS NUMBER	67784-80-9
RECOMMENDED USES	Fuel in diesel-powered engines and equipment

SECTION 2 – HAZARDS CLASSIFICATION

This product is classified as non-hazardous according to the criteria of NOHSC.

Risk Phrases	None
Safety Phrases	S25, S26, S45
TSCA status	This product is listed on TSCA.
SARA Title III	Section 312 Extremely Hazardous Substances: None Section 311/312 Hazardous Categories: Non-hazardous Section 313 Toxic Chemicals: None

SECTION 3 – INGREDIENTS/COMPOSITION

Ingredients	Soy methyl ester (100%) (CAS Number: 67784-80-9)
Synonyms	Methyl soyate, Soybean oil methyl ester, SME, Fatty acid methyl ester, B100 Soybiodiesel

Not listed in the NOHSC List of Designated Hazardous Substances and not listed in the ADG code.

SECTION 4 – FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

Inhalation	Negligible unless heated to produce vapours. Vapours or finely misted materials may cause irritation to the mucous membranes and cause dizziness and nausea. Remove to well-ventilated area.
Ingestion	Do not induce vomiting. Wash mouth with water. No hazards from ingestion due to industrial exposure. Seek medical attention if symptoms develop.
Eye contact	Not classified as eye irritant, but in the event of contact irrigate eye with water for 10 – 15 minutes. Seek medical attention if symptoms persist.
Skin contact	Not classified as a skin irritant or corrosive material. Prolonged or repeated skin contact not likely to cause significant skin irritation. Material may be encountered at elevated temperatures – possibility of thermal burns.

FOLLOW STANDARD FIRST AID PROCEDURES

Swallowing	Give person one or two glasses of water to drink. If gastro-intestinal symptoms develop call physician or Poisons Information Centre.
Skin contact	Wash affected area with soap and water.
Eye contact	Flush eyes with cool water for at least 15 – 20 minutes. Do not let person rub eyes.
Inhalation	Remove person to fresh air. Seek medical attention if symptoms persist.

SECTION 5 – FIRE FIGHTING MEASURES

Flash point and method used	> 130°C (ASTM D93)
Flammability	Not flammable
Flammability limits	Not known
NFPA rating	No NFPA Rating
HMIS rating	HEALTH: 0; FIRE: 1; REACTIVITY: 0

Extinguishing media

Foam, dry chemical, carbon dioxide and water spray

Special fire fighting procedures and precautions: Treat as oil fire. Use water spray to cool drums exposed to the fire. Fire fighters should use self-contained breathing apparatus to avoid exposure to smoke and fumes.

Unusual fire & explosion hazards: Improper handling of oil-soaked rags can cause spontaneous combustion. Wash rags with soap and water and leave in well-ventilated area to dry or store oil-soaked rags in approved safety containers. May produce carbon monoxide when burning.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency procedures

In case of accidental spillage contain spill if possible. Wear protective clothing such as boots, safety goggles and overalls. Do not release spills into sewers or waterways. Contain spill using industrial inert absorbants/adsorbants. Remove all sources of heat and incompatible materials such as strong oxidation agents. Surfaces can be slippery after spillage. Contaminated surfaces can be cleaned using water and detergent. Oil-soaked rags should be placed in fire-proof containers.

SECTION 7 – HANDLING AND STORAGE

Storage temperature

10°C – 50°C

General

Store away from excessive heat, ignition sources (sparks and flames) and strong oxidising agents. Store in a cool, dry and well-ventilated environment. Do not store in direct sunlight. Close containers when not in use. Where appropriate protective clothing when emptying containers. Even though material is classified as non-hazardous, adhere to standard practice when handling material such as safety boots, protective clothing and face shields.

SECTION 8 – PERSONAL PROTECTION/EXPOSURE CONTROL

PEL: No OSHA
PELT/LV: No ACGIH TLV

No ES-TWA, ES-STEL and ES-Peak exposure standards or biological limit allocated by NOHSC.

Respiratory protection

Always ensure that workplace has adequate ventilation. Recommended exposure limits (i.e., OSHA-PEL and ACGIH-TLV) have not been established for this material. In case of mist formation, wear appropriate respiratory protective equipment as determined by expert opinion.

Skin protection

Chemically resistant gloves made from materials such as PVC should be worn to prevent skin contact. Remove

contaminated clothing and wash with soap and water before re-using. Chemically resistant aprons can be worn to avoid contact with clothes.

Eye protection

Always wear approved safety glasses when working. Full face protective shields can be worn to avoid contact with face. Eye wash stations should be provided and regularly inspected.

Footwear

Wear chemically resistant footwear as specified by workplace regulations.

Additional measures

Practice good personal hygiene by washing exposed skin regularly with soap and water. Wash hand before consuming any food or drink.

SECTION 9 – PHYSICAL PROPERTIES

Physical state	Liquid	Vapour density	Not available (Air = 1)
Appearance	Pale yellow colour	Evaporation rate	< 1 (Butyl acetate = 1)
Water solubility	Insoluble	Flash point	> 130°C
Odour	Mild	Boiling point	> 200°C
Specific gravity	0.89 max (Water = 1)	Melting point	-5 to -10°C
pH value	Not available	Flammability limits	Not available
Vapour pressure	< 2 mm Hg @ 25°C		

SECTION 10 – REACTIVITY & STABILITY

Stability	Stable
Hazardous polymerization	Will not occur
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	Combustion produces CO ₂ , CO and thick smoke.
Conditions to avoid	None known

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity	Acute oral LD50 (rat) >17 400mg/kg
Acute and chronic health effects	None known

SECTION 12 – ECOLOGICAL INFORMATION

Environmental precautions	Product is not classed as a water pollutant or a toxic chemical. Nevertheless, avoid uncontrolled releases of this product into the environment. Product is biodegradable.
Spill or leak precautions	Contain spilled material using appropriate measures. Transfer to secure containers. Where necessary, collect material using absorbent media.
Waste disposal	Dispose spilled or contaminated material according to federal, state and/or local requirements.
Aquatic toxicity	Product is not considered toxic to aquatic environments
Persistence/Degradability	Product degrades at the same rate as dextrose sugar.
Mobility	Not available

SECTION 13 – DISPOSAL

Disposal considerations	Dispose of waste according to local, state and federal laws. Do not dispose into sewer system or into waterways. Use licensed waste operators for proper disposal of waste.
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SECTION 14 – TRANSPORT INFORMATION

Transport information	Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
UN Hazard class	Not available
Packing Group	Not applicable
National Motor Freight Classification	
Shipping classification	65
Proper shipping name	Fatty acid methyl ester
Identification number	144920

SECTION 15 – REGULATORY INFORMATION

TSCA status	This product is listed on TSCA.
SARA Title III	Section 312 Extremely Hazardous Substances: None Section 311/312 Hazardous Categories: Non-hazardous Section 313 Toxic Chemicals: None

Poison schedule None allocated

SECTION 16 – OTHER INFORMATION

This information relates only to the product described herein and may not be valid for such material used in combination with any other materials or in any other process. The MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and the company assumes no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

(19 January 2009)

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