



MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

Innovation Fuels
126 Passaic St.
Newark NJ 07104

EMERGENCY TELEPHONE NUMBER:
8:00 AM - 5:00 PM EST
(973) 482-2400

EA BF-120-3.9
Bio-fuel
Bio Diesel

EFFECTIVE DATE: 10/01/07
REVISED DATE: 07/01/08

MIXED METHYL ESTERS OF VARIOUS FATS AND OILS

BIO DIESEL

D.O.T. HAZARD CLASS
CHEMICAL FAMILY
SYNONYMS

CHEMICAL NOI, Class 65
Methyl Ester
Bio Diesel , Bio Fuel, Mixed Methyl Ester of Various
Fats and Oils

FORMULA
MSDS REVIEWED BY

Mixture
Tom Grossberger, Technical Director

SECTION 2 - PHYSICAL DATA

BOILING POINT (Deg F)
VAPOR PRESSURE (MM HG)
VAPOR DENSITY (AIR=1)
SOLUBILITY IN WATER
SPECIFIC GRAVITY (H2O=1)
VOLATILE BY VOLUME
EVAPORATION RATE (H2O=1)
CLOUD POINT

OVER 600 Deg F (315 Deg C)
less than 1mm HG @ STP
N/A
nil Less than 1%
APPROX. 0.87 @27 Deg C
N/A
47 DEG F

APPEARANCE & ODOR: CLEAR LIQUID, AMBER IN COLOR, LIQUID AT ROOM
TEMPERATURE

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT 266 DEG F (130 DEG C) (PMCC)

EXTINGUISHING MEDIA:

SEE SPECIAL FIRE FIGHTING PROCEDURES
TREAT AS OIL FIRE, USE WATER SPRAY, DRY CHEMICAL , FOAM OR CARBON DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES:

Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored or used.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Improper handling of solvent soaked rags can cause spontaneous combustion. Use Factory Mutual approved and UL listed containers for storage used rags

NFPA HAZARD CLASSIFICATION:

DEGREE OF HAZARD

Health (Blue)	0
Flammability (Red)	1
Reactivity (Yellow)	0

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

SECTION 4 - REACTIVITY DATA

STABILITY: Generally Stable

CONDITIONS TO AVOID: Keep away for warm/ hot areas store in cool dry areas. Keep away from strong oxidizing agents, store away for open flame.

INCOMPATIBILITY: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: None expected. CO and CO2 is expected when combusted. Use only in controlled systems

HAZARDOUS POLYMERIZATION: Not Likely to Occur

CONDITION TO AVOID: NA

SECTION 5 - HAZARDOUS COMPONENTS

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PAINTS, PRESERVATIVES, AND SOLVENTS: NA
ALLOYS AND METALLIC COATINGS: NA

HAZARDOUS COMPONENTS

CAS NUMBER: 67784-80-9
TLV No TLV: NO ACGIH TLV
PEL No OSHA PEL
LD50 % > 50ML/KG (Albino rats) (Similar Products)

TLV = Mg/M3 - PEL = Mg/M3 - LD50 =oral,rat,Mg/Kg - NF= NONE

- The indicated material, if any, is listed as a carcinogen or potential carcinogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.

** - The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusettes, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.

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SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

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SPILL & LEAK PROCEDURES:

Liquids should be contained and adsorbed with a suitable absorbent, or flushed to the waste treatment area. Flush area with plenty of water. Avoid all personal contact.

WASTE DISPOSAL METHODS:

Waste solution should not be discharged into sewers or streams. Contact local waste disposal contractor for proper disposal according to local, state and federal requirements.

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SECTION 7 - HEALTH HAZARD DATA

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ROUTES OF EXPOSURE

INHALATION: Inhaling mist or spray is irritating to the upper respiratory tract and depending on the severity of exposure, may cause tissue damage. Wear protective gear when not using with adequate ventilation.

SKIN CONTACT: This product is irritating to tissues contacted and may cause skin damage.

SKIN ABSORPTION: See SKIN CONTACT above.

EYE CONTACT: This product is irritating to eye tissues on contact. May cause permanent eye damage. Seek professional medical attention.

INGESTION: This product, if swallowed, will be irritating to the mouth, throat, and stomach.

EFFECTS OF OVEREXPOSURE

ACUTE: Irritating to all body tissues with which it comes in contact.

CHRONIC: Repeated or prolonged exposure may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and foot wear, and wash clothing before reuse. Discard any clothing that cannot be decontaminated. Seek medical attention immediately.

INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

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== SECTION 8 - SPECIAL HANDLING PROCEDURES

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RESPIRATORY: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where mist or spray may be generated above TLV limit.

VENTILATION: Use adequate local exhaust ventilation where mist or spray may be generated, to maintain level below the TLV limit.

GLOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

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SECTION 9 - SPECIAL PRECAUTIONS

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HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Wash thoroughly after handling material. Store in a cool, dry area, in a closed container when not being used. **DO NOT STORE** with strong acids and oxidizers.

OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

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