



Material Safety Data Sheet

EMERGENCY PHONE:

REG Laboratory: 712-667-3411

West Central/REG Environmental Health: 712-792-3545

MANUFACTURER: Renewable Energy Group

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Ralston, IA 51459

CHEMTREC: 800-424-9300 MSDS REFERENCE: - M.E.S.

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SUPERSEDES ANY EARLIER MSDS INFORMATION

SECTION I - IDENTIFICATION

PRODUCT: BIODIESEL FROM SOYBEAN OIL CAS NO. 67784-80-9
Structure, Mixture of C16-C18 methyl esters and less than or equal to 0.1% petroleum diesel
Structural Class Fatty acid alkyl esters
SARA HAZARD: NONE NOTED (SECNON 311/312) TITLE III SECTION 313 - NOT LISTED

SECTION II - HAZARDOUS INGREDIENTS

NONE AS DEFINED UNDER THE U.S. OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) OR THE CANADIAN HAZARDOUS PRODUCTS ACT S.C. 1987, C.30 (PART 1).

SECTION III - PHYSICAL DATA

APPEARANCE: PALE YELLOW TO GOLDEN IF UNDYED
BOILING POINT: OVER 350 DEG F AT 760 MM HG PRESSURE
VAPOR PRESSURE: LESS THAN 1 mm HG AT 72 DEG C
SPECIFIC GRAVITY: 0.87 AT 25 DEG C
SOLUBILITY IN WATER: NEGLIGIBLE AT ROOM TEMPERATURE
APPEARANCE AND COLOR: GOLDEN TO PALE YELLOW LIQUID AT ROOM TEMPERATURE
MELTING POINT: -1 DEG C
VISCOSITY: 3.9 - 4.4 CST AT 40 DEG C

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLASH POINT & METHOD USED:	>266 DEG F (130 DEG C) (PMCC)
FLAMMABLE LIMITS IN AIR, % BY VOL. LOWER:	NOT APPLICABLE
FLAMMABLE LIMITS IN AIR, BY VOL. UPPER:	NOT APPLICABLE
NFPA RATING:	NO NFPA RATING
HMIS RATING:	HEALTH (1), FIRE (0), REACTIVITY (0), SPECIFIC (NONE)

SPECIAL FIRE FIGHTING PROCEDURES & PRECAUTIONS:

THIS FLUID IS CLASSIFIED AS "COMBUSTIBLE" UNDER OSHA

(INDIVIDUALS SHOULD PERFORM ONLY THOSE FIRE FIGHTING PROCEDURES FOR WHICH THEY HAVE BEEN TRAINED). USE WATER SPRAY, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE BUT SHOULD BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL. IF A SPILL OR LEAK HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM FIRE.

USUAL FIRE & EXPLOSION HAZARDS:

SOAKED RAGS WILL CAUSE SPONTANEOUS COMBUSTION IF NOT HANDLED PROPERLY. KEEP SOAKED RAGS IN AN APPROVED SAFETY CONTAINER OR LET DRY INDIVIDUALLY IN WELL-VENTILATED AREA. FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IN THE POSITIVE -PRESSURE MODE WITH A FULL FACEPIECE WHEN THERE IS A POSSIBILITY OF EXPOSURE TO SMOKE, FUMES, OR HAZARDOUS DECOMPOSITION PRODUCTS.

SECTION V - HEALTH HAZARD DATA

INHALATION:	UNKNOWN
ACUTE ORAL TOXICITY:	LD50:>17.4g/KG (ALBINO RATS) (SIMILAR PRODUCTS)
EYE CONTACT:	SIMILAR PRODUCTS WERE NOT CLASSIFIED AS EYE IRRITANTS.
SKIN CONTACT:	NOT CLASSIFIED AS A PRIMARY SKIN IRRITANT OR CORROSIVE MATERIAL. MODERATE SKIN IRRITANT

EMERGENCY FIRST AID PROCEDURE

FOR OVEREXPOSURE BY <u>SWALLOWING</u> :	CALL A PHYSICIAN OR POISON CONTROL CENTER PROMPTLY. IF SWALLOWED, DO NOT INDUCE VOMITING.
FOR OVEREXPOSURE BY <u>SKIN CONTACT</u> :	WASH AFFECTED AREA.
FOR OVEREXPOSURE BY <u>EYE CONTACT</u> :	IMMEDIATELY FLUSH EYES WITH PLENTY OF COOL WATER FOR AT LEAST 15 MINUTES. DO NOT LET VICTIME RUB EYES.
FOR OVEREXPOSURE BY <u>INHALATION</u> :	IMMEDIATELY REMOVE VICTIM TO FRESH AIR. IF VICTIM HAS STOPPED BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH-TO-MOUTH. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION VI - REACTIVITY

STABILITY:	GENERALLY STABLE
HAZARDOUS POLYMERIZATION:	NONE LIKELY
HAZARDOUS DECOMPOSITION PRODUCTS:	DECOMPOSITION MAY PRODUCE CARBON MONOXIDE AND CARBON DIOXIDE.
CONDITIONS TO AVOID:	HEAT, SPARKS OPEN FLAME AND OTHER IGNITION SOURCES
MATERIALS TO AVOID:	STRONG OXIDIZING AGENTS/STRONG REDUCING AGENTS/STRONG ACIDS/STRONG ALKALIES/STRONG BASES/STRONG MINERAL ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS:	DECOMPOSITION MAY PRODUCE OXIDES OF CARBON, NITROGEN AND VARIOUS OTHER HYDROCARBONS.

SECTION VII - SPILL, LEAK, AND WASTE DISPOSAL PROCEDURES

ENVIRONMENTAL PRECAUTIONS:	AVOID UNCONTROLLED RELEASES OF THIS MATERIAL. WHERE SPILLS ARE POSSIBLE, A COMPREHENSIVE PLAN SHOULD BE DEVELOPED AND IMPLEMENTED. PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES, AS REQUIRED.
SPILL OR LEAK PRECAUTIONS:	WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING AS DESCRIBED IN SECTION VIII. CONTAIN SPILLED MATERIAL AND TRANSFER TO SECURE CONTAINERS. WHERE NECESSARY, COLLECT USING ABSORBENT MEDIA. IN THE EVENT OF AN UNCONTROLLED RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE IS REPORTABLE UNDER APPLICABLE LAWS AND REGULATIONS.
WASTE DISPOSAL:	ALL RECOVERED MATERIAL SHOULD BE PACKAGED, LABELED, TRANSPORTED, AND DISPOSED OR RECLAIMED IN CONFORMANCE WITH APPLICABLE LAWS AND REGULATIONS AND IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES. RECLAIM WHERE POSSIBLE.

SECTION VIII - SPECIAL PROTECTION INFORMATION

CONTROL MEASURES:	HANDLE IN THE PRESENCE OF ADEQUATE, VENTILATION.
RESPIRATORY PROTECTION:	RECOMMENDED EXPOSURE LIMITS (i.e., OSHA-PEL AND ACGIH-TLV) HAVE NOT BEEN ESTABLISHED FOR THIS MATERIAL. WHETHER THERE IS A NEED FOR RESPIRATORY PROTECTION UNDER YOUR CONDITIONS OF HANDLING OF THIS MATERIAL SHOULD BE EVALUATED BY A QUALIFIED HEALTH SPECIALIST.
PROTECTIVE CLOTHING:	NO NEED ANTICIPATED.
EYE PROTECTION:	WEAR SAFETY GLASSES MEETING THE OSHA SPECIFICATIONS

SECTION IX - SPECIAL PRECAUTIONS

METHYL SOYATE SOAKED RAGS SHOULD BE STORED IN AN APPROVED SAFETY CONTAINER OR DRIED INDIVIDUALLY IN A WELL-VENTILATED AREA TO AVOID SPONTANEOUS COMBUSTION.

SECTION X – TRANSPORTATION INFORMATION

UN HAZARD CLASS:	N/A
NMFC (NATIONAL MOTOR FREIGHT CLASSIFICATION):	
PROPER SHIPPING NAME:	FATTY ACID ESTER
IDENTIFICATION NUMBER:	144920
SHIPPING CLASSIFICATION:	65

MANUFACTURER'S STATEMENT:

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