



MATERIAL SAFETY DATA SHEET

SECTION 1: COMPANY IDENTIFICATION

The Fuel Ox, LLC
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SECTION 2: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Fuel Ox
SYNONYMS:	Fuel Inhibitor & Burn Rate Modifier/Catalyst
CHEMICAL NAME:	Fuel Inhibitor & Burn Rate Modifier/Catalyst
CHEMICAL FAMILY:	Not Applicable
CHEMICAL FORMULA:	Complex Mixture
PRODUCT USE:	Fuel Additive

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CONCENTRATIONS</u>	
1-decene, homopolymer, hydrogenated (CAS #68037-01-4)		
ACGIH TVL:	No Listing	Trade Secret
OSHA PEL:	No Listing	
Methylene bis (thiocyanate) (CAS #6317-18-6)		
ACGIH TVL:	Not Listed	< 1%
OSHA PEL:	Not Listed	
Petroleum Distillate (CAS #64742-47-8)		
ACGIH TVL:	No Limit	Trade Secret
OSHA PEL:	No Limit	
Proprietary Amine Compound		
ACGIH TVL:	No Listing	Trade Secret
OSHA PEL:	No Listing	
Solvent naphtha, heavy aromatic (CAS #64742-94-5)		
ACGIH TVL:	Not Listed	Trade Secret
OSHA PEL:	Not Listed	

SECTION 4: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Eyes, Skin, Ingestion, Inhalation

POTENTIAL HEALTH EFFECTS:

EYES: Yes
SKIN: Yes
INGESTION: Yes
INHALATION: Yes

ACUTE HEALTH HAZARDS:

Eyes: Can cause irritation, redness, blurred vision and possible permanent damage.
Skin: Prolonged contact can cause irritation, dermatitis.
Ingestion: Harmful or fatal if swallowed. Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation: High concentrations can cause irritation, dizziness, nausea, fatigue, headache and unconsciousness or asphyxiation.

CHRONIC HEALTH HAZARDS:

Prolonged or repeated overexposure can cause organ damage and an increased risk of cancer.



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SECTION 5: FIRST AID MEASURES

EYES: Flush with copious amounts of water for at least 15 minutes. Get medical attention.
SKIN: Wash with soap and water. Remove contaminated clothing. Wash contaminated clothing before re-use.
INGESTION: Do not induce vomiting, keep warm, get medical attention.
INHALATION: Remove to fresh air. If breathing is impaired, get medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

If swallowed, DO NOT induce vomiting due to the risk of aspiration posed by petroleum distillates.

SECTION 6: FIRE-FIGHTING MEASURES

FLASH POINT: 164° Fahrenheit
METHOD USED: Pensky- Martens Closed Cup (ASTM D-93)
EXTINGUISHING MEDIA: CO₂ Foam, Dry Chemical or Halon
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus, Do not extinguish with water.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None
HAZARDOUS DECOMPOSITION PRODUCTS: Irritating and/or toxic fumes including CO, CO₂, N and S Compounds may be released.

NFPA HAZARD CLASSIFICATION:

HEALTH: 3 **FLAMMABILITY:** 2 **REACTIVITY:** 0 **OTHER:** None

SECTION 7: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

- Clean spill with absorbent material.
- Eliminate ignition sources.
- Use full face NIOSH approved organic respirator if TWA/TVL limits are exceeded.
- Avoid runoff into storm sewers and ditches which lead to waterways.
- Do not store greasy materials in enclosed containers for long periods of time.

SECTION 8: HANDLING AND STORAGE

HANDLING AND STORAGE: Protect from physical damage. Store in a cool, dry ventilated area away from acids, alkalis, and open flames.

OTHER PRECAUTIONS: None

SECTION 9: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use non sparking equipment
VENTILATION : Use local exhaust to maintain levels below TWA/TVL limits
RESPIRATORY PROTECTION: Use NIOSH approved organic respirator if TWA/TVL limits are exceeded



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EYE PROTECTION: Wear safety glasses or goggles
SKIN PROTECTION: Wear as appropriate: Chemical resistant apron, protective suit, boots
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear chemical resistant (nitrile, butyl rubber, neoprene) gloves.
WORK HYGIENIC PRACTICES: Facilities storing or utilizing this material should be equipped with an eyewash station.

SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber to Orange Liquid
ODOR: Organic, Solvent Odor
PHYSICAL STATE: Liquid
DENSITY (lb./gal.): 6.86
EVAPORATION RATE: < 1 (Butyl Acetate = 1)
SOLUBILITY IN WATER: Slight
VISCOSITY: 12.9 cps @ 40° C

SECTION 11: STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID (STABILITY): Open Flame
INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents, acids
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None
HAZARDOUS POLYMERIZATION: None
CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 12: TOXICOLOGICAL INFORMATION

No data is available for this material. The information provided is based on profiles of raw materials of similar composition. No raw material exceeds 50% of finished product.

This proprietary amine compound is an eye irritant. The acute oral LD50 (rat) is .612 gm/kg. The acute dermal LD50 (rat) is .251 gm/kg. The acute inhalation LC50 is greater than 1 mg/L for one hour exposure (rat).

CARCINOGENICITY: NPT-NO IARC-NO OSHA-NO

1-decene, homopolymer, hydrogenated may cause skin and eye irritation. The acute oral LD50 (rat) is >5000 mg/kg.

CARCINOGENICITY: NPT-NO IARC-NO OSHA-NO

Methylene bis (thiocyanate) : Rabbit: Severe eye and skin irritant.

CARCINOGENICITY NTP-NO IARC-NO OSHA-NO

SECTION 13: ECOLOGICAL INFORMATION

No data is available for this material. The information provided is based on profiles of raw materials of similar composition. No raw material exceeds 50% of finished product.

PROPRIETARY AMINE COMPOUND:

Ecotoxicity in water (LC50): 1.3 mg/l 96 hours (Rainbow trout).
Ecotoxicity in water (EC50): 4.1 mg/l 48 hours (Daphnia magna).
Not readily biodegradable.

1-DECENE, HOMOPOLYMER, HYDROGENATED:

No data is available for this material.



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METHYLENE BIS (THIOCYANATE):

Ecotoxicity in water: This pesticide is toxic to fish.
No other information available.

SECTION 14: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Incinerate or dispose of waste in a chemical landfill as approved by current, local, state and federal laws and regulations.

RCRA HAZARD CLASS: Not Available

SECTION 15: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (GROUND) / WATER TRANSPORTATION / AIR TRANSPORTATION-BULK

PROPER SHIPPING NAME: Flammable Liquids, Toxic, N.O.S. (Naptha, t-alkylamines)
HAZARD CLASS: 3, 6.1
UN NUMBER: UN 1992
PACKING GROUP: III
LABELS REQUIRED: Combustible, Toxic, Marine Pollutant
ERG: 131

U.S. DEPARTMENT OF TRANSPORTATION (GROUND) / AIR TRANSPORTATION-NON BULK

PROPER SHIPPING NAME: Toxic, Liquids, Organic, N.O.S. (t-alkylamines)
HAZARD CLASS: 6.1
UN NUMBER: UN 2810
PACKING GROUP: III
LABEL REQUIRED: Toxic
ERG: 153

WATER TRANSPORTATION-NON BULK

PROPER SHIPPING NAME: Toxic, Liquids, Organic, N.O.S. (t-alkylamines)
HAZARD CLASS: 6.1
UN NUMBER: UN 2810
PACKING GROUP: III
LABELS REQUIRED: Toxic, Marine Pollutant
ERG: 153

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

SECTION 16: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION): This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200)

WHMIS:

This product is a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS)

TSCA (TOXIC SUBSTANCE CONTROL ACT):

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (USCA) Chemical Substance Inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or



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nondesignated RCRA ICR substance(s). (Nondesignated ICR substances apply to materials that will not be reused). Releases in excess of reportable quantity must be reported to the National Response Center (1-800-424-8802) and the appropriate state and local emergency response organizations.

SARA TITLE III: SECTION 311/312 HAZARD CATEGORIES:

Acute Health Hazard. Chronic Health Hazard.

SECTION 17: OTHER INFORMATION

DISCLAIMER:

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.