

# MATERIAL SAFETY DATA SHEET

THE FUEL OX, LLC  
117 BUFFALO HOLLOW RD.  
GLEN GARDNER, NJ 08826

## SECTION I

Identity: FUEL OX H.O.T. - Home Heating Fuel Inhibitor & Burn Rate Modifier  
Chemical Names and Synonyms: Petroleum Additive  
Chemical Family: Not Applicable  
Formula: Complex Mixture  
Date Prepared: August 30, 2013  
EMERGENCY RESPONSE: 1-321-622-6320

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## HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH: 3  
FLAMMABILITY: 2  
REACTIVITY: 0  
SPECIAL NOTICE: -

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## SECTION II – HAZARDOUS COMPONENTS

Acrylic Copolymer:  
Non-Hazardous  
ACGIH TLV: No Listing  
OSHA PEL: No Listing Trade Secret

1-Decene, homopolymer, hydrogenated (CAS #68037-01-4)  
ACGIH TLV: No Listing Trade Secret  
OSHA PEL: No Listing

Methylene bis (thiocyanate) (CAS #6317-18-6)  
ACGIH TLV: No Listing < 1%  
OSHA PEL: No Listing

Mineral Oil:  
(CAS #64742-52-5)  
ACGIH TLV: 5 mg/m<sup>3</sup> (as mist oil)  
OSHA PEL: 5 mg/m<sup>3</sup> (as mist oil) Trade Secret

Petroleum Distillate (CAS #64742-47-8)  
ACGIH TLV: No Limit Trade Secret  
OSHA PEL: No Limit

Proprietary Amine Compound  
ACGIH TLV: No Listing Trade Secret  
OSHA PEL: No Listing

Solvent naphtha, heavy aromatic (CAS #64742-94-5)  
ACGIH TLV: No Listing Trade Secret  
OSHA PEL: No Listing

Alkyl Amines (CAS #68955-53-3)  
ACGIH TLV: No Listing  
OSHA PEL: No Listing  
OSHA STEL: No Listing Trade Secret

4.7 Methano-1h-indene octo hydro  
Ethyl Benzene 06004-38-2 <2%  
0100-41-4 <1%

Ethyl toluene	25550-14-5	<1%
Trimethyl benzene	25551-13-7	<1%
Bicycloheptane 2-methyl-3 (1 methyl ethylenyl) isomer	622337-89-7	<1%
2-Methyl styrene	00611-15-4	<1%
N propyl benzene	0103-65-1	<1%
Cumene	00098-82-8	<1%
Naphthalene	00091-20-3	<1%
Titralin 221	0119-62-2	<1%
2-ethyl-bicycloheptane	2146-41-0	<1%
Bicycloheptane 2 butyl	62211-86-3	<1%
Vinyl acetate monomer	0108-05-4	<1%
Hexahydro – 1, 3, 5 – triethyl-s-triazine (CAS #7779-27-3)		
ACGIH TLV	Not Listed	
OSHA PEL	Not Listed	

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Density (1 lb/gal):	7.28
Vapor Density (AIR=1):	>1
Evaporation Rate	(Butyl Acetate)
Solubility in Water:	Slight
Appearance and Odor:	Light amber liquid, characteristic amine odor
Volatile Organic Compound – VOC grams/liter:	Not Applicable

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	155°F
Flammable Limits:	
LEL -	Not determined for product
UEL -	Not determined for product
Extinguishing Media:	CO <sub>2</sub> , 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

SECTION V – REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Open Flame
Incompatibility (Materials to Avoid):	Strong Oxidizing Agents
Hazardous Decomposition Products:	Irritating and/or toxic fumes including oxides of carbon and nitrogen may be released.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None

SECTION VI – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Not determined for product, see Section II

Route(s) of Entry:

Eyes:	Yes
Inhalation:	Yes
Skin:	Yes
Ingestion:	Yes

TOXICITY (ACUTE AND CHRONIC):

Hexahydro – 1, 3, 5-triethyl-s-triazene has an acute oral LD50 (rats) of 280 mg/kg. The acute dermal LD50 (rabbits) is 400 mg/kg.

Acute hepatotoxicity studies have shown severe toxic focal necrosis of the liver in rats. There were no teratogenic effects in a developmental toxicity study with rats.

CARCINOGENICITY: NPT-NO IARC-NO OSHA-NO

Paraffinic oils (hydrotreated and dewaxed) may cause skin and eye irritation.

CARCINOGENICITY: NPT-NO IARC-NO OSHA-NO

These alkyl amines (CASE #68955-53-5) are considered corrosive by the DOT test for corrosivity and a severe skin and eye irritant (rabbit) in concentrated form. The acute oral LD50 (rat) is 320 mg/kg and the acute dermal LD50 (rat) 1120 mg/kg. The amines tested positive under the Ames Mutagenicity Test.

SPECIAL PRECAUTIONS:

Precautions to be taken in handling and storing:

Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat sparks and open flames and never use a cutting torch on or near container (even empty) or explosion may result. Vapors may travel to areas away from the work site and ignite.

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OTHER PRECAUTIONS:

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid and/or solid), all hazard precautions given in the data sheet must be observed. Do not transfer to improperly marked container. Do not use pressure to empty container. Do not cut, heat, weld or expose containers to flame or other sources of ignition. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving container(s) when being emptied. Containers should not be washed out and used for other purposes.

FOR INDUSTRIAL USE ONLY

REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III

Section 302/304 Extremely Hazardous Substances (40 CFR 355)

SARA requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

These values are subject to change and the regulations should be consulted to verify current statutory requirements.

Components present in this product at a level which could require reporting under the statute are:

Component Name:	<u>RQ</u>	<u>TPQ</u>	<u>%Range</u>
Vinyl Acetate Monomer	5000	1000	<1%

Chemical Inventory Reporting Requirements (40 CFR 370)

The Superfund Amendments and Re authorization Act (SARA) may require submission of reports (chemicals list, MSDS, Tier I & II) to the State Emergency Response Commission, Local Emergency Response Committee and the local fire department.

The SARA physical and health hazards related to this product are:

- Acute Heat Hazard                      Sudden Release of Pressure                       Fire
- Chronic Health Hazard                       Reactive

List of Toxic Chemical (40 CFR 372)

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDS's that are copied and distributed for this material.

Component Name:	<u>CAS #</u>	<u>% Range</u>
Ethyl Benzene	00100-4104	<10%
Xylene	01330-20-7	<5%
Cumene	00098-82-8	<5%
Naphthalene	00091-20-3	<5%
Vinyl Acetate Monomer	000108-05-4	<1%

CERCLA, 40 CFR 261 AND 302

This comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center 1-800-424-8802 of any release of a hazardous substance equal or greater than the reportable quantities (RQs) list in 40 CFR 302.4. Values are given in pounds for the component and not the mixture if applicable. (These values are subject to change and the regulations should be consulted to verify current statutory levels).

Component Name:	<u>CAS #</u>	<u>CERCLA RQ</u>
Ethyl Benzene	00100-41-4	1000
Xylene	01330-20-74	1000
Cumene	00098-82-8	5000
Naphthalene	00091-20-3	100
Vinyl Acetate Monomer	000108-05-4	5000

OSHA Exposure Limits

Component Name:

- Ethyl Benzene:
  - TWA ppm: 100.0    TWA MG/M<sup>3</sup> 435.0    STEL ppm: 125.0    STEL MG/M<sup>3</sup> 545.0
- Xylene:
  - TWA ppm: 100.0    TWA MG/M<sup>3</sup> 435.0    STEL ppm: 150.0    STEL MG/M<sup>3</sup> 655.0
- Trimethyl Benzenes:
  - TWA ppm: 25.0    TWA MG/M<sup>3</sup> 125.0

Cumene:

TWA ppm: 50.0 TWA MG/M<sup>3</sup> 245.0 Skin X

Naphthalene:

TWA ppm: 10.0 TWA MG/M<sup>3</sup> 50.0 STEL ppm: 150.0 STEL MG/M<sup>3</sup> 75.0

Vinyl Acetate Monomer:

TWA ppm: 10.0 TWA MG/M<sup>3</sup> 30.0 STEL ppm: 20.0 STEL MG/M<sup>3</sup> 60.0

### HEALTH HAZARDS

Eyes – can cause irritation, redness, blurred vision

Skin – prolonged contact can cause dermatitis and irritation

Inhalation – may cause irritation, dizziness, nausea, fatigue, headache and unconsciousness or asphyxiation.

Ingestion – can cause gastrointestinal irritation, nausea, vomiting and diarrhea.