

AMSOIL Material Safety Data Sheet

Date Issued/Revised: October 8, 2002
Supersedes: March 24, 2000

Section 1: Product and Company Identification

Manufacturer: AMSOIL, Inc. Telephone: CHEMTREC (Spill Emergency Only): 1-800-424-9300
925 Tower Avenue Information: 715-392-7101
Superior, WI 54880

AMSOIL Product Code..... AHF
Product Label NameHOME HEATING FUEL EXTENDER
Product Use HEATING FUEL IMPROVER

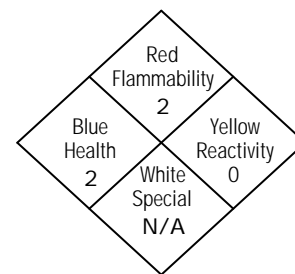
Section 2: Composition/Information on Ingredients

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

Component	CAS#	Weight%
Petroleum Distillate.....	68477-31-6.....	33.67%
Naphthalene.....	91-203.....	3.62%
Xylene.....	1330-20-7.....	1.17%
2-Ethylhexanol.....	104-76-7.....	1.81%
1,2,4-Trimethylbenzene.....	95-63-5.....	12.41%
Cumene.....	95-82-8.....	0.59%

*See Section 8 for exposure limits.

NFPA & HMIS Rating



Section 3: Hazards Identification

POTENTIAL HEALTH EFFECTS: WARNING! Extremely Flammable Liquid, vapor may cause flash fire
Eye, inhalation and skin irritant.

Section 4: First Aid Measures

- EYE:** Flush with water for 15-20 minutes. Seek medical attention if irritation develops.
- SKIN:** Wash immediately with soap and water. Remove contaminated clothing and launder before reuse. Discard shoes and leather articles saturated with the product. Obtain medical advice if irritation occurs.
- INHALATION:** Remove exposed person to fresh air. If breathing is labored give oxygen. If breathing has stopped apply artificial respiration. Get immediate medical attention.
- INGESTION:** DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. If vomiting does occur, keep head below hips to reduce risk of aspiration. Get immediate medical attention.

Section 5: Fire Fighting Measures

FLAMMABILITY PROPERTIES: Flash Point122°F(50°C)
Method TCC ASTM D-56
LFL/UFL.....Not Determined
Auto-ignition Temperature 880° F(471°C)Appx.

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, and alcohol foam.

FIREFIGHTING EQUIPMENT: Full bunker gear recommended including a positive pressure self-contained breathing apparatus.

Section 6: Accidental Release Measures

Isolate spill area. Provide adequate ventilation. Wear appropriate personal protection. Recover free product for recycle and/or disposal. Add sand, earth or other suitable absorbent to spill area. Prevent entry into sewers and waterways. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulator Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spill.

Section 7: Handling and Storage

HANDLING: Keep containers closed. Do not puncture or incinerate can. Avoid contact with eyes, skin or clothing. Wash hands after handling. Empty container may retain product residue which may exhibit hazards of product.

STORAGE: Keep away from heat or flame.

*Product may pose an Electostatic Accumulation Hazard. For information regarding safe handling of products with static accumulation potential contact the American Petroleum Institute (API) or API Recommended Practice 2003, entitled **Protection Against Ignitions Arising Out of Static, Lighting or stray Currents**

Section 8: Exposure Controls/Personal Protection

Component	CAS#	%	OSHA PEL TWA	Unit
Petroleum Distillate	68477-31-6	33.67%	500	ppm

VENTILATION: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

RESPIRATORY: Use a NIOSH approved respirator when necessary.

SKIN: Use Viton or Nitrile gloves to avoid prolonged or repeated skin contact.

EYE: Use splash goggles or face shield where splashing is expected or can occur.

EXPOSURE LIMITS: The Threshold Limit Value (TLV) of 5 mg/m³ is suggested for oil mist.

Section 9: Physical and Chemical Properties

Physical State	Liquid
Boiling Point	328° F(165°C) Approximate
Freezing/Melting Point	-76°F(-60°C)
Vapor Pressure	Not Determined
Vapor Density (Air=1).....	Not Determined
Evaporation Rate.....	Not Determined
Solubility in Water	Insoluble
Specific Gravity (Water=1).....	0.9022
Density, lb./gal.	7.514
Volatility (Volume)	Unknown
VOC	Unknown
pH	Not Determined
Coefficient of Water/Oil Distribution.....	Not Determined
Odor	Aromatic, Hydrocarbon Odor
Odor Threshold	Not Determined
Appearance.....	Light Amber Colored Liquid
Viscosity, cSt @ 100°C	Not Applicable

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Viscosity, cSt @ 40°CNot Applicable
Viscosity IndexNot Applicable

Section 10: Stability and Reactivity

STABILITY: Stable under moderately elevated temperatures and pressures.

INCOMPATIBILITY: Avoid contact with strong oxidants, concentrated chlorine, sodium hypochlorite or calcium hypochlorite.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION OF PRODUCT: Toxic oxides of carbon, aldehydes and other products of incomplete combustion.

Section 11: Toxicological Information

ACUTE EXPOSURE

Eye Irritation: Moderate to strong eye irritation. Based on data from components or similar material.

Skin Irritation: Not expected to be a primary skin irritant. Based on data from components or similar material. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting, and cracking of the skin.

Respiratory Irritation: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.

CHRONIC EXPOSURE

Chronic Toxicity: Repeated overexposure to this product as a whole may aggravate pre-existing problem or cause lung, liver and kidney damage.

Carcinogenicity: No data available to indicate product present at greater than 0.1% are a carcinogenic hazard.

Mutagenicity: No data available to indicate product present at greater than 1.0% present a mutagenic or genotoxic hazard.

Reproductive Toxicity: No data available to indicate product present at greater than 1.0% present a reproductive hazard.

Teratogenicity: No data available to indicate product present at greater than 1.0% present a teratogenic hazards.

ADDITIONAL INFORMATION

Exposure Limits: Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

There are extensive toxicological data available on the various components of this product. An adequate representation of all these data is beyond the scope of this document. Please contact the AMSOIL Material Safety Data Sheet Coordinator for more detail.

Section 12: Ecological Information

No data available on the adverse effects of this product on the environment.

Section 13: Disposal Considerations

Material is expected to be hazardous when disposed, Dispose of in accordance with all local, state and federal regulations as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Section 14: Transport Information

This product is not classified as hazardous material for DOT shipping. For further information relative to spills resulting from transportation incidents, refer to the latest DOT Emergency Response Guidebook for Hazardous Materials.

Section 15: Regulatory Information

U.S. Federal Regulations

- OSHA Table Z.....Petroleum Distillates
- TSCA.....Not Applicable
- CERCLA 40 CFR 302.4Not Applicable
- SARA Title III
 - Section 302 Extremely HazardousNot Applicable
 - Section 311/312
 - Fire Hazard Yes
 - Reactive HazardNo
 - Release of Pressure.....No
 - Acute Health Hazard Yes
 - Chronic Health HazardNo
 - Section 313 Toxic ChemicalNot Applicable

U.S. State Regulations

- California (Prop 65)
 - Does not contain chemicals known to the state of California to cause cancer.

International Regulations

- WHMIS All components listed

Section 16: Other Information

The information and recommendations contained herein are, to the best of AMSOIL's knowledge and belief, accurate and reliable as of the date issued. AMSOIL makes no warranty or guarantee, expressed or implied, of their accuracy or reliability, and AMSOIL shall not be liable for any loss or damage based upon the criteria supplied by the developers of these rating systems, together with AMSOIL's interpretation of the available data.