

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : **FPPF Bio-Diesel Winter Treatment**

Product Code(s) : None reported.

Product Use : Diesel fuel treatment

Chemical Family : Mixture.

Supplier's name and address:
FPPF Chemical Company, Inc.
 117 West Tupper Street
 Buffalo, NY, USA
 14201

Manufacturer's name and address:
 Refer to Supplier

Information Telephone # : 1-800-735-3773

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

SECTION 2 - HAZARDS IDENTIFICATION

Classification : OSHA: Hazardous classification: Combustible liquid; Acute Health Hazard; Chronic Health Hazard.

WHMIS classification: Class B3 (Combustible Liquids); Class D1A (Materials Causing Immediate and Serious Toxic Effects, Very Toxic Material); Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material); Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

Emergency Overview : Clear to slightly hazy amber liquid. Solvent odor.
 Warning! Combustible liquid and vapor. Harmful or fatal if inhaled or absorbed through the skin. Causes central nervous system depression. May cause irritation to upper respiratory system. Severe skin and eye irritant. May be fatal if ingested. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Contains material which may cause cancer, based on animal data. Contains material which may be a teratogen.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : Harmful or fatal if inhaled. Symptoms may include nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression. May result in unconsciousness and possibly death. May cause irritation to the nose, throat and upper respiratory tract. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Skin : May cause moderate to severe skin irritation. May be absorbed and cause symptoms similar to those for inhalation.

Eyes : May cause moderate to severe irritation.

Ingestion : Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. May be fatal if very large amounts are swallowed. May be absorbed and cause symptoms similar to those for inhalation. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Effects of long-term (chronic) exposure

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Repeated overexposure may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage.

Carcinogenic status : Possible cancer hazard. See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : Potential teratogen. See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects : See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	CAS #	Wt.%

Hydrocarbon Naphtha	8052-41-3	60.00 - 100.00
Ethylene glycol monobutyl ether	111-76-2	10.00 - 30.00
1,2,4-Trimethylbenzene	95-63-6	10.00 - 30.00
Light aromatic solvent naphtha	64742-95-6	7.00 - 13.00
2-Ethylhexanol	104-76-7	1.00 - 5.00
Xylenes (mixed)	1330-20-7	1.00 - 5.00
Vinyl acetate	108-05-4	0.50 - 1.50
Naphthalene	91-20-3	0.10 - 1.00
Ethylbenzene	100-41-4	0.10 - 1.00

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation or symptoms develop, seek medical attention.
- Ingestion** : Seek immediate medical attention/advice. Do not induce vomiting, unless directed to do so by qualified medical personnel. Never give anything by mouth to an unconscious person.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

- Fire hazards/conditions of flammability** : Combustible liquid and vapor. This material may be ignited by heat, sparks and direct flame. Vapours are heavier than air and collect in confined and low-lying areas. Vapour can travel to ignition source and flash back. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.
- Flammability classification (OSHA 29 CFR 1910.1200)** : Class II Combustible Liquid.
- Oxidizing properties** : None known.
- Explosion data: Sensitivity to mechanical impact / static discharge** : May be sensitive to static discharge. Not expected to be sensitive to mechanical impact.
- Suitable extinguishing media** : Dry chemical, foam, carbon dioxide and water fog.
- Special fire-fighting procedures/equipment** : Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.
- Hazardous combustion products** : Carbon oxides; Hydrocarbons; Aldehydes; irritating fumes and smoke.
- NFPA Rating** :

0 - Minimal	1 - Slight	2 - Moderate	3 - Serious	4 - Severe
: <i>Health:</i> 3 <i>Flammability:</i> 2 <i>Instability:</i> 0 <i>Special Hazards:</i> 0				

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up.
- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.
- Spill response/cleanup** : Ventilate area of release. Remove all sources of ignition. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.
- Prohibited materials** : Do not use combustible absorbents, such as sawdust.
- Special spill response procedures**

- : In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): Naphthalene (100 lbs / 45.4 kg); Xylene (100 lbs / 45.4 kg); Ethylbenzene (1000 lbs / 454 kg); vinyl acetate (5000 lbs / 2270 kg)

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use in a well ventilated area. Wear suitable protective equipment during handling. Do not ingest. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Use proper bonding and grounding techniques when transferring liquid. Avoid contact with incompatible materials. Wash thoroughly after handling.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
- Incompatible materials** : Strong oxidizing agents; Acids; Bases; halogens.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

<u>Exposure Limits</u>				
<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Hydrocarbon Naphtha	100 ppm	N/Av	500 ppm ; 2900 mg/m ³	N/Av
Ethylene glycol monobutyl ether	20 ppm	N/Av	50 ppm (skin)	N/Av
1,2,4-Trimethylbenzene	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Light aromatic solvent naphtha	N/Av	N/Av	N/Av	N/Av
2-Ethylhexanol	N/Av	N/Av	N/Av	N/Av
Xylenes (mixed)	100 ppm	150 ppm	100 ppm	N/Av
Vinyl acetate	10 ppm	15 ppm	10 ppm (final rule limit)	20 ppm (final rule)
Naphthalene	10 ppm	15 ppm	10 ppm ; 50 mg/m ³	N/Av
Ethylbenzene	100 ppm	125 ppm	100 ppm ; 435 mg/m ³	N/Av

- Ventilation and engineering measures** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
- Respiratory protection** : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers.
- Skin protection** : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.
- Eye / face protection** : Chemical splash goggles are recommended. A full face shield may also be necessary.
- Other protective equipment** : Wear resistant clothing and boots. Other equipment may be required depending on workplace standards. An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid	Appearance	: Amber liquid.
Odour	: Petroleum odor.	Odour threshold	: N/Av
pH	: N/Av		
Boiling point	: N/Av	Specific gravity	: 0.81
Melting/Freezing point	: N/Av	Coefficient of water/oil distribution	: N/Av
Vapour pressure (mmHg @ 20° C / 68° F)	: N/Av	Solubility in water	: slight
Vapour density (Air = 1)	: >1	Evaporation rate (n-Butyl acetate = 1)	: <1
Volatile organic Compounds (VOC's)	: N/Av	Volatiles (% by weight)	: N/Av
Flash point	: >61.1°C / >142°F		
Flash point Method	: Tag closed cup	Auto-ignition temperature	: N/Av
Lower flammable limit (% by vol.)	: N/Av	Upper flammable limit (% by vol.)	: N/Av
Flame Projection Length	: N/Av	Flashback observed	: N/Av

Section 10: Stability And Reactivity

Stability and reactivity	: Stable under the recommended storage and handling conditions prescribed.
Hazardous polymerization	: Will not occur.
Conditions to avoid	: Avoid heat and open flame. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas.
Materials To Avoid And Incompatibility	: See Section 7 (Handling and Storage) section for further details.
Hazardous decomposition products	: None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs	: Eyes, skin, respiratory system, digestive system, central nervous system.
Routes of exposure	: <i>Inhalation:</i> YES <i>Skin Absorption:</i> YES <i>Skin & Eyes:</i> YES <i>Ingestion:</i> YES
Toxicological data	: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC50(4hr)</u> <u>inh, rat</u>	<u>LD50</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Hydrocarbon Naphtha	>880 ppm/4H	>5000 mg/kg	>3000 mg/kg
Ethylene glycol monobutyl ether	450 ppm/4H	530 mg/kg	400 - 500 mg/kg
1,2,4-Trimethylbenzene	18 g/m3	5000 mg/kg	N/Av
Light aromatic solvent naphtha	N/Av	>5000 mg/kg	>3160 mg/kg
2-Ethylhexanol	890 - 5300 mg/m³	2052 mg/kg	1985 mg/kg
Xylenes (mixed)	5000 ppm	4300 mg/kg	12,180 mg/kg
Vinyl acetate	3250 - 4100 ppm	2900 mg/kg	2300 mg/kg
Naphthalene	N/Av	1780 mg/kg	>2500 mg/kg
Ethylbenzene	4000 ppm	3500 mg/kg	15380 mg/kg

Carcinogenic status	: Contains ethylene glycol monobutyl ether. Ethylene glycol monobutyl ether is classified as a confirmed animal carcinogen by ACGIH (Group A3). Contains Vinyl acetate and Ethylbenzene. Vinyl acetate and Ethylbenzene are classified as carcinogenic by IARC (Group 2B) and ACGIH (Category A3). Contains Naphthalene. Naphthalene is classified as carcinogenic by IARC (Group 2B) and NTP (Group 2 - Reasonably anticipated).
Reproductive effects	: Not expected to be cause reproductive effects.
Teratogenicity	: This product contains Xylene. Xylene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data.
Mutagenicity	: Not expected to be mutagenic in humans.

- Epidemiology** : Not available.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : Not available.
- Irritancy** : Irritating to eyes, respiratory system and skin.
- other important hazards** : None known or reported by the manufacturer.
- Conditions aggravated by overexposure** : Pre-existing skin, eye, respiratory and central nervous system disorders.

SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : No data is available on the product itself.
- Mobility** : No data is available on the product itself.
- Persistence** : No data is available on the product itself.
- Bioaccumulation potential** : No data is available on the product itself.
- Other Adverse Environmental effects** : The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	NA1993	Combustible liquid, n.o.s. (Petroleum distillates)	Combustible.	III	
49CFR/DOT Additional information	Not regulated for road or rail shipment if packaged in non-bulk containers (450 Litres or less each). The 'label' appearing here is the placard to be used for bulk shipments.				
TDG	None	Not regulated.	Not regulated	none	
TDG Additional information	None.				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). See Section 2.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Acute Health Hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Ethylbenzene; Naphthalene; vinyl acetate; 1,2,4-Trimethylbenzene; Xylene; Cumene.

US State Right to Know Laws:

California Proposition 65: This product contains chemicals known to the State of California to cause cancer and/or reproductive harm. This product contains: Naphthalene; Ethylbenzene

International Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). See Section 2.


This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION

HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
*Health: *3 Flammability: 2 Reactivity: 0*

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CFR: Code of Federal Regulations
 DOT: Department of Transportation
 EPA: Environmental Protection Agency
 HMIS: Hazardous Materials Identification System
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 Inh: Inhalation
 MSHA: Mine Safety and Health Administration
 N/Ap: Not Applicable
 N/Av: Not Available
 NFPA: National Fire Protection Association
 NIOSH: National Institute of Occupational Safety and Health
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible exposure limit
 RCRA: Resource Conservation and Recovery Act
 RTECS: Registry of Toxic Effects of Chemical Substances
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TPQ: Threshold Planning Quantity
 TSCA: Toxic Substance Control Act
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Identification System

References : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2009
 2. International Agency for Research on Cancer Monographs, searched 2009
 3. Canadian Centre for Occupational Health and Safety, CInfoWeb databases (Chempendium, HSDB and RTECs).
 4. Material Safety Data Sheet from manufacturer.
 5. US EPA Title III List of Lists
 6. California Proposition 65 List

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Preparation Date (dd/mm/yyyy)

: 24/03/2010

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