Sid Harvey part # F2-20

Hot 4-in-1 Heating Oil Treatment

SDS Preparation Date (mm/dd/yyyy): 05/31/2015



SDS # Z0057

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# SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the lab	el			
	:	Hot 4-in-1 Heating Oil Tre	atment	
Product Code(s)	:	US Product Codes: 00161, 90161, 00164, 90164, 00163 Canada Product Codes: 00221, 90221		
Recommended use of the chemic	al	and restrictions on use		
	:	Fuel oil treatment. No restrictions of	on use known.	
Chemical family	:	Mixture.		
Name, address, and telephone nu		umber of	Name, address, and telephone number of	
the manufacturer:			the supplier:	
FPPF Chemical Company, Inc.			Refer to manufacturer	
117 West Tupper Street				
Buffalo, NY, USA				
14201 Manufacturer's Telephone #		1-800-735-3773		
	÷			
24 Hr. Emergency Tel #	:	Chemtrec 1-800-424-9300 (Within ( (Outside U.S.).	Continental U.S.); Chemtrec 703-527-3887	

#### SECTION 2. HAZARDS IDENTIFICATION

#### **Classification of the chemical**

Amber liquid. Odour: Mineral oil

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

# Classification

Flammable Liquid - Category 4 Acute Toxicity, oral - Category 4 Acute Toxicity, dermal - Category 3 Acute Toxicity, inhalation - Category 3 (vapor) Skin Irritation - Category 2 Eye Damage/Irritation - Category 2A Aspiration Toxicity - Category 1 Reproductive Toxicity - Category 2 Developmental Carcinogenicity- Category 2 Specific Target Organ Toxicity, Single Exposure - Category 3 (respiratory) Specific Target Organ Toxicity, Single Exposure - Category 3 (respiratory)

### Label elements

Hazard pictogram(s)



Hazard statement(s)

Combustible liquid and vapor. Harmful if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness and dizziness. May be fatal if swallowed and enters airways. Suspected of causing cancer. Suspected of damaging the unborn child.

#### Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Wash hands and face thoroughly after handling.

In case of fire, use water fog, dry chemical, CO2 or 'alcohol' foam.

IF exposed or concerned: Get medical attention/advice.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash before re-use.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists, get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Rinse mouth.

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other hazards

No OSHA defined hazard classes.

Other hazards which do not result in classification: May be sensitive to static discharge. Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

nemical name	Common name and synonyms	CAS #	<b>Concentration</b>
Light aromatic solvent naphtha	Aromatic Naphtha Solvent naphtha (petroleum) light aromatic	64742-95-6	25.0 - 40.0
2-Butoxy ethanol	Ethylene Glycol Monobutyl Ether EB	111-76-2	45.0 - 55.0
1,2,4-Trimethylbenzene	Pseuoducumene	95-63-6	4.0 - 6.5
1,3,5-Trimethyl benzene	Trimethylbenzol Mesitylene	108-67-8	2.0 - 4.0
Xylene (mixed isomers)	Dimethylbenzene Methyltoluene Xylol	1330-20-7	1.0 - 2.0
Cumeme	Isopropyl benzene Cumol, 2-phenyl propane	98-82-8	0.1 - 0.9
oleic acid	Oleinic acid; 9-Octadecenoic acid; Elaic acid	112-80-1	0.1 - 0.9
Heavy aromatic solvent naphtha	Aromatic Naphtha Solvent naphtha (petroleum) heavy aromatic	64742-94-5	0.1 - 0.9

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Trimethylbenzenes	Methylxylenes (non-specific name); Trimethylbenzenes (non-specific name)	25551-13-7	1.0 - 2.0
Ethylbenzene	Ethylbenzene Phenylethane EB	100-41-4	0.1 - 0.5

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

escription of first aid measures	
Ingestion	: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Rinse mouth. Aspiration hazard Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only.
Skin contact	: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse.
Eye contact	<ul> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.</li> </ul>
lost important symptoms and e	
<b></b>	: IF exposed or concerned: Get medical attention/advice.
	Harmful if swallowed. Symptoms may include severe abdominal pain, nausea and vomiting. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
	Toxic in contact with skin. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation.
	Toxic if inhaled. Symptoms may include coughing, choking and wheezing. May cause respiratory impairment and lung damage.
	May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties.
	May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
	Causes skin irritation. Symptoms may include redness, itching and swelling. Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.
	May be fatal if swallowed and enters airways. Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Symptoms include coughing, shortness of breath and wheezing.
	Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.
	Suspected of damaging the unborn child. Symptoms in offspring may include reduced fetal weight, behavioral effects, delayed skeletal formation and hearing loss.
	Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
Indication of any immediate med	ical attention and special treatment needed
-	: Immediate medical attention is required. Provide general supportive measures and treat symptomatically. Show this safety data sheet to the doctor in attendance.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media

: Dry chemical, foam, carbon dioxide and water fog.

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Unsuitable extinguishing media	
:	Do not use a solid water stream as it may scatter and spread fire.
Special hazards arising from the su	bstance or mixture / Conditions of flammability
: Flammability classification (OSHA 2	Combustible liquid and vapour. Keep away from flames and hot surfaces No smoking. Use only outdoors or in a well-ventilated area. May be sensitive to static discharge. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. Vapors may travel considerable distance to a source of ignition and flash back. Vapours may be heavier than air and may collect in confined and low-lying areas. Product may float, and be re-ignited at the water's surface. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. PG CFR 1910.106)
:	Flammable Liquid - Category 4
Hazardous combustion products	
. :	Carbon oxides.Nitrogen oxides. Reactive hydrocarbons. Aldehydes. Other irritating fumes and smoke.
Special protective equipment and p Protective equipment for fire-fight	
:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.
Special fire-fighting procedures	
:	Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control.
SECTION 6. ACCIDENTAL REL	EASE MEASURES
Personal precautions, protective eq	uipment and emergency procedures
: Environmental precautions :	If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any
Methods and material for containme	natural waterway or drinking supply.
	Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not

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: 1-800-424-8802). US CERCLA Reportable quantity (RQ): Xylene (100 lbs / 45.4 kg); Cumene (5000 lbs / 2270 kg);

Ethylbenzene (1000 lbs / 454 kg)

the spilled product. Contact the proper local authorities.

use combustible absorbents, such as sawdust. Bond and ground transfer containers and equipment to avoid static accumulation. Pick up and transfer to properly labelled containers. Contaminated absorbent material may pose the same hazards as

SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Keep away from flames and hot surfaces No smoking. Wear protective gloves/clothing and eye/face protection. Wash hands thoroughly after handling. Avoid breathing mist or vapours. Do not eat, drink or smoke when using this product. Do not ingest. Avoid contact with skin, eyes and clothing. Avoid contact with incompatible materials.
Conditions for safe storage	:	Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up. Take measures to prevent the build up of electrostatic charge. Store away from incompatibles and out of direct sunlight. After prolonged storage, may release explosive peroxides in the presence of air. Direct sunlight or heat may accelerate the release of peroxides. Rate of peroxide formation is not known. 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; Perchloric acid; Reactive metals; Bases.

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Limits:

Chemical Name	ACGIH	<u>TLV</u>	<u>OSHA</u>	OSHA PEL	
	TWA	STEL	PEL	<u>STEL</u>	
Light aromatic solvent naphtha	N/Av	N/Av	N/Av	N/Av	
2-Butoxy ethanol	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	
1,3,5-Trimethyl benzene	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av	
Xylene (mixed isomers)	100 ppm	150 ppm	100 ppm (435 mg/m³)	N/Av	
Cumeme	50 ppm	N/Av	50 ppm ; 245 mg/m³ (Skin)	N/Av	
oleic acid	N/Av	N/Av	N/Av	N/Av	
Heavy aromatic solvent naphtha	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	N/Av	
Trimethylbenzenes	25 ppm	N/Av	25 ppm (final rule limit)	N/Av	
Ethylbenzene	20 ppm	N/Av	100 ppm ; 435 mg/m³	125ppm; 545mg/m	

#### Exposure controls

Ventilation and engineering measures

: Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use non-sparking equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

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Skin protection	: Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.		
Eye / face protection	Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.		
Other protective equipment	Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.		
General hygiene considerations			
	: Avoid breathing mist or vapor. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.		
SECTION 9. PHYSICAL ANI	THEMICAL PROPERTIES		

Appearance	: Amber liquid.	
Odour	Mineral oil odour.	
Odour threshold	: N/Av	
рН	: N/Av	
Melting/Freezing point	: N/Av	
Initial boiling point and boiling	ange	
	: 113 - 116 °C / 235 - 240°F	
Flash point	>60°C / >140°F	
Flashpoint (Method)	Tag closed cup	
Evaporation rate (BuAe = 1)	: Slower than n-butyl acetate	
Flammability (solid, gas)	: N/Ap	
Lower flammable limit (% by vo	•	
	: N/Av	
Upper flammable limit (% by vo	.)	
	: N/Av	
Oxidizing properties	: None known.	
Explosive properties	: N/Av	
Vapour pressure	: N/Av	
Vapour density	: >1	
Relative density / Specific grav	ty	
	: 0.90	
Solubility in water	: Slightly soluble.	
Other solubility(ies)	: N/Av	
Partition coefficient: n-octanol	vater or Coefficient of water/oil distribution	
	: N/Av	
Auto-ignition temperature	: N/Av	
Decomposition temperature	: N/Av	
Viscosity	: N/Av	
Volatiles (% by weight)	: 87%(approximately)	
Volatile organic Compounds (V	C's)	
	: N/Av	
Absolute pressure of container		
	: N/Ap	
Flame projection length	: N/Ap	
Other physical/chemical comm	ents	
	: None reported by the manufacturer.	

# SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not normally reactive.
Chemical stability	:	Stable under normal conditions.

Possibility of hazardous reaction	
	Hazardous polymerization will not occur. May be sensitive to static discharge. May form explosive peroxides during prolonged exposure to air and heat. Rate of peroxide formation is not known.
Conditions to avoid	Keep away from flames and hot surfaces. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharge. Avoid contact with incompatible materials.
Incompatible materials	Strong oxidizing agents; Acids; Perchloric acid; Reactive metals; Bases.
Hazardous decomposition produce	i de la constante d
	None reported by the manufacturer. Refer also to hazardous combustion products, Section 5.

# SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Routes of entry inhalation	:	YES		
Routes of entry skin & eye	:	YES		
Routes of entry Ingestion	:	YES		
Routes of exposure skin absorption				
	:	YES		

#### **Potential Health Effects:**

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

0 , ,		
Sign and symptoms ingestion	:	Toxic if inhaled. Inhalation may cause respiratory irritation and central nervous system depression. Symptoms include:Upper respiratory irritation, coughing, sneezing, staggering gait, giddiness, drowiness, slurred speech, nausea, and possible nervous system depression.
	:	Harmful if swallowed. Ingestion may cause symptoms similar to inhalation. Symptoms may include severe abdominal pain, nausea and vomiting. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. May be fatal if swallowed and enters airways. Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Symptoms include coughing, shortness of breath and wheezing.
Sign and symptoms skin	:	Toxic in contact with skin. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation. Causes skin irritation. Symptoms include: Dryness, itching, cracking, burning, redness and swelling.
Sign and symptoms eyes	:	Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.
Potential Chronic Health Effects		
	:	Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
Mutagenicity	:	Not expected to be mutagenic in humans.
Carcinogenicity	:	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
		Classification Carcinogenicity- Category 2 Suspected of causing cancer.
		Contains Cumene. Cumene is classified as possibly carcinogenic by IARC (Group 2B). Contains Ethylbenzene. Ethylbenzene is classifed as carcinogenic by IARC (Group 2B) and ACGIH (Category A3).

	<ul> <li>This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).</li> </ul>
	Classification Reproductive Toxicity - Category 2 Suspected of damaging the unborn child. Developmental
	Contains Xylene (mixed isomers) Xylene may cause fetotoxic effects (e.g. reduced fetal weight, delayed ossification, behavioral effects) at doses which are not maternally toxic, based on animal data.
Sensitization to material	: Not expected to be a skin sensitizer. Not expected to be a respiratory sensitizer.
Specific target organ effects	<ul> <li>Eyes, skin, respiratory system, digestive system, central nervous system, blood system.</li> </ul>
	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
	Classification Specific target organ toxicity - single exposure Category 3 May cause drowsiness and dizziness. May cause respiratory irritation.
	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Medical conditions aggravated b	ov overexposure
	: Pre-existing skin, eye, respiratory and central nervous system disorders.
Synergistic materials	: None reported by the manufacturer.
Toxicological data	: The calculated ATE values for this mixture are: ATE oral = 1041.6mg/kg ATE dermal =545.7mg/kg ATE inhalation (vapours) =3.7mg/L/4H

See below for individual ingredient acute toxicity data.

	LC₅₀(4hr)	LD <sub>50</sub>			
Chemical name	inh, rat	(Oral, rat)	<u>(Rabbit, dermal)</u>		
Light aromatic solvent	>17.7mg/L/4H (vapour)	8400 mg/kg	>3160 mg/kg		
2-Butoxy ethanol	450 ppm (2.175 mg/L)	530 mg/kg	400 - 500 mg/kg		
1,2,4-Trimethylbenzene	18 mg/L	5000 mg/kg	> 3160 mg/kg		
1,3,5-Trimethyl benzene	24 mg/L	23 000 mg/kg	>3160mg/kg		
Xylene (mixed isomers)	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg		
Cumeme	8000 ppm; 39 mg/L	2260 mg/kg	10 627 mg/kg		
oleic acid	N/Av	>19200 mg/kg	>3000mg/kg guinea pig		
Heavy aromatic solvent naphtha	> 17.1 mg/L/4 hours	> 6000 mg/kg	> 3160 mg/kg		
Trimethylbenzenes	18 - 24mg/kg (based on similar substances)	8970 mg/kg	>3160mg/kg (based on similar substances)		
Ethylbenzene	4000 ppm (17.4mg/L) (vapour)	3500 mg/kg	15,380 mg/kg		

Other important toxicological hazards

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: No data is available on the product itself.

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### Ecotoxicity data:

		Toxicity to Fish				
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Light aromatic solvent naphtha	64742-95-6	9.22 mg/L (Rainbow trout)	N/Av	None.		
2-Butoxy ethanol	111-76-2	1490 mg/L (Lepomis marcrhius)	>100mg/L (Zebra fish)	none		
1,2,4-Trimethylbenzene	95-63-6	7.19 - 8.28 mg/L (Fathead minnow)	N/Av	None.		
1,3,5-Trimethyl benzene	108-67-8	12.52 mg/L (Goldfish)	N/Av	None.		
Xylene (mixed isomers)	1330-20-7	8.2 mg/L (Rainbow trout)	N/Av	None.		
Cumeme	98-82-8	4.5mg/L (Rainbow trout)	0.38mg/L QSAR	None.		
oleic acid	112-80-1	205 mg/L (Fathead minnow)	N/Av	None.		
Heavy aromatic solvent naphtha	64742-94-5	3.6 mg/L (Rainbow trout)	N/Av	none		
Trimethylbenzenes	25551-13-7	7.72mg/L (Fathead minnow) (Read-across)	N/Av	None.		
Ethylbenzene	100-41-4	4.2 mg/L (Rainbow trout)	1.13mg/L(30 day) QSAR (no species given)	none		

Ingredients	CAS No	Toxicity to Daphnia					
		EC50 / 48h	NOEC / 21 day	M Factor			
Light aromatic solvent naphtha	64742-95-6	6.16 mg/L (Daphnia magna)	N/Av	None.			
2-Butoxy ethanol	111-76-2	835mg/L (Daphnia magna)	100mg/L (Daphnia magna)	none			
1,2,4-Trimethylbenzene	95-63-6	6.14 mg/L (Daphnia magna)	N/Av	None.			
1,3,5-Trimethyl benzene	108-67-8	6 mg/L (Daphnia magna)	0.4mg/L	None.			
Xylene (mixed isomers)	1330-20-7	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.			
Cumeme	98-82-8	2.14 mg/L (Daphnia magna)	0.35mg/L	None.			
oleic acid	112-80-1	N/Av	N/Av	None.			
Heavy aromatic solvent naphtha	64742-94-5	1.1 mg/L (Water flea)	N/Av	none			
Trimethylbenzenes	25551-13-7	2.7mg/L Daphnia magna (Water flea) (Read-across)	0.4mg/L (Read-across)	None.			
Ethylbenzene	100-41-4	1.81 mg/L/ (Water flea)	N/Av	none			

Ingredients	CAS No	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Light aromatic solvent naphtha	64742-95-6	N/Av	N/Av	N/Av		
2-Butoxy ethanol	111-76-2	911mg/L/72hr	286mg/L/72hr	none		
1,2,4-Trimethylbenzene	95-63-6	N/Av	N/Av	None.		
1,3,5-Trimethyl benzene	108-67-8	3.191mg/L QSAR	N/Av	None.		
Xylene (mixed isomers)	1330-20-7	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.		
Cumeme	98-82-8	1.29mg/L/72hr (Green algae)	0.73mg/L	None.		
oleic acid	112-80-1	N/Av	N/Av	None.		
Heavy aromatic solvent naphtha	64742-94-5	7.2 mg/L/72 hours (Green algae)	0.22 mg/L/72 hours (Green algae)	none		
Trimethylbenzenes	25551-13-7	5.7mg/L/72hr (Green algae) (Read-across)	0.38mg/L/72hr (Read-across)	None.		
Ethylbenzene	100-41-4	3.6 mg/L/96 hours (Selanastrum capricornatum)	3.4mg/L	none		

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Persistence and degradability

:

No data is available on the product itself.

The following ingredients are considered to be readily biodegradable: 2-butoxyethanol.

**Bioaccumulation potential** 

: No data is available on the product itself.

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See the following data for ingredient information.

<u>Components</u>	Partition coefficent n-octanol/ater (log Kow)	Bioconcentration factor (BCF)
Light aromatic solvent naphtha (CAS 64742-95-6)	2.1 - 6(calulated)	10 - 2500(calculated)
2-Butoxy ethanol (CAS 111-76-2)	0.81 at 25 °C	0.97
1,2,4-Trimethylbenzene (CAS 95-63-6)	3.78	31 - 275
1,3,5-Trimethyl benzene (CAS 108-67-8)	3.6 - 3.93	23 - 328
Xylene (mixed isomers) (CAS 1330-20-7)	3.12 - 3.2	0.6 - 15
Cumeme (CAS 98-82-8)	3.55 at 23 °C	224
oleic acid (CAS 112-80-1)	7.64	10(calculated)
Heavy aromatic solvent naphtha (CAS 64742-94-5)	>3 - < 6.5	No information available.
Trimethylbenzenes (CAS 25551-13-7)	3.63	42 - 328
Ethylbenzene (CAS 100-41-4)	3.15	1.1 - 1.5

Mobility in soil

#### Other Adverse Environmental effects

: The ecological characteristics of this product have not been fully investigated. Contains material that may be harmful in the environment. 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

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

<sup>:</sup> No data is available on the product itself.

Methods of Disposal	:	Dispose in accordance with all applicable federal, state, provincial and local regulations.
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. TRANSPORTATION INFORMATION

t regulated for road or rail ship pearing here is the placard to	ipment if packaged in non-bulk be used for bulk shipments. for an environmentally hazardor	containers (450 Litres or less ea us material according to the IMD	ch). The 'label'	COMBUSTIBLE
pearing here is the placard to is product meets the criteria for	be used for bulk shipments. for an environmentally hazardou	Υ.	,	
ne. Not regulated				1
	1.	not regulat	ed none	$\bigotimes$
is product meets the criteria fo	for an environmentally hazardo	us material according to the IMD	G Code.	
		· · ·	· · · ·	s product meets the criteria for an environmentally hazardous material according to the IMDG Code. for user Keep away from heat, sparks and open flame No smoking.

the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

### SECTION 15 - REGULATORY INFORMATION

### US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

Ingradients		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: S 372, Specific To	,
<u>Ingredients</u>	CAS #	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration
Light aromatic solvent naphtha	64742-95-6	Yes	N/Ap	N/Ap	No	N/Ap
2-Butoxy ethanol	111-76-2	Yes	N/Ap	N/Av	No	N/Ap
1,2,4-Trimethylbenzene	95-63-6	Yes	N/Ap	N/Ap	Yes	1%
1,3,5-Trimethyl benzene	108-67-8	Yes	N/Ap	N/Av	No	N/Ap
Xylene (mixed isomers)	1330-20-7	Yes	100 lb/ 45.4 kg	None.	Yes	1%
Cumeme	98-82-8	Yes	5000 lb/ 2270 kg	N/Ap	Yes	1%
oleic acid	112-80-1	Yes	N/Ap	N/Av	No	N/Ap
Heavy aromatic solvent naphtha	64742-94-5	Yes	N/Ap	N/Av	No	N/Ap
Trimethylbenzenes	25551-13-7	Yes	N/Ap	N/Ap	No	N/Ap
Ethylbenzene	100-41-4	Yes	1000 lb/ 454 kg	N/Ap	Yes	0.1%

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.

### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65 CAS #			State "Right to Know" Lists					
ingredients	CA3 #	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI	
Light aromatic solvent naphtha	64742-95-6	No	Not listed	No	No	No	No	No	No	
2-Butoxy ethanol	111-76-2	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes	
1,2,4-Trimethylbenzene	95-63-6	No	Not listed	No	Yes	Yes	Yes	Yes	No	
1,3,5-Trimethyl benzene	108-67-8	No	Not listed	Yes	Yes	No	No	No	No	
Xylene (mixed isomers)	1330-20-7	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes	
Cumeme	98-82-8	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes	
oleic acid	112-80-1	No	Not listed	No	No	No	No	Yes	No	
Heavy aromatic solvent naphtha	64742-94-5	No	Not listed	No	No	No	No	No	No	
Trimethylbenzenes	25551-13-7	No	Not listed	Yes	Yes	Yes	Yes	Yes	No	
Ethylbenzene	100-41-4	Yes	Carcinogen:	Yes	Yes	Yes	Yes	Yes	Yes	

#### Canadian Information:

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

WHMIS Classification: See Section 2.

#### International Information:

Components listed below are present on the following International Inventory list:

<b>Ingredients</b>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Light aromatic solvent naphtha	64742-95-6	265-199-0	Present	Present	(9)-1698	KE-31662	Present	May be used as a single component chemical under an appropriate group standard
2-Butoxy ethanol	111-76-2	203-905-0	Present	Present	(7)-97; (2)-407	KE-04134	Present	HSR001154
1,2,4-Trimethylbenzene	95-63-6	202-436-9	Present	Present	(3)-7; (3)-3427	KE-34410	Present	HSR001382
1,3,5-Trimethyl benzene	108-67-8	203-604-4	Present	Present	(3)-7; (3)-3427	KE-34411	Present	HSR001229
Xylene (mixed isomers)	1330-20-7	215-535-7	Present	Present	(3)-60; (3)-3	KE-35427	Present	HSR000983
Cumeme	98-82-8	202-704-5	Present	Present	(3)-32; (3)-22	KE-23957	Present	HSR001184
oleic acid	112-80-1	204-007-1	Present	Present	(2)-975; (2)-609	KE-26450	Present	HSR003153
Heavy aromatic solvent naphtha	64742-94-5	265-198-5	Present	Present	(3)-7	KE-31656	Present	May be used as a single component chemical under an appropriate group standard
Trimethylbenzenes	25551-13-7	247-099-9	Present	Present	(3)-7; (3)-3427	KE-34408	Present	May be used as a single component chemical under an appropriate group standard
Ethylbenzene	100-41-4	202-849-4	Present	Present	(3)-60; (3)-28	KE-13532	Present	HSR001151

# SAFETY DATA SHEET

#### **SECTION 16. OTHER INFORMATION**

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists ATE: Acute Toxicity Estimate AICS: Australian Inventory of Chemical Substances CA: California CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations **CNS: Central Nervous System** CSA: Canadian Standards Association DOT: Department of Transportation EC50: Effective Concentration 50%. EINECS: European Inventory of Existing Commercial chemical Substances ENCS: Existing and New Chemical Substances EPA: Environmental Protection Agency HMIS: Hazardous Materials Identification System HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer Inh: Inhalation IMDG: International Maritime Dangerous Goods KECI: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List LC: Lethal Concentration LD: Lethal Dose MA: Massachusetts MN: Minnesota MSHA: Mine Safety and Health Administration N/Ap: Not Applicable

- N/Av: Not Available
- NFPA: National Fire Protection Association

	<ul> <li>NIOSH: National Institute of Occupational Safety and Health</li> <li>NOEC: No observable effect concentration</li> <li>NTP: National Toxicology Program</li> <li>NJ: New Jersey</li> <li>NOEC: No observable effect concentration</li> <li>OECD: Organisation for Economic Co-operation and Development</li> <li>OSHA: Occupational Safety and Health Administration</li> <li>PA: Pennsylvania</li> <li>PEL: Permissible exposure limit</li> <li>PICCS: Philippine Inventory of Chemicals and Chemical Substances</li> <li>RCRA: Resource Conservation and Recovery Act</li> <li>RI: Rhode Island</li> <li>RTECS: Registry of Toxic Effects of Chemical Substances</li> <li>SARA: Superfund Amendments and Reauthorization Act</li> <li>STEL: Short Term Exposure Limit</li> <li>TDG: Canadian Transportation of Dangerous Goods Act &amp; Regulations</li> <li>TLV: Threshold Limit Values</li> <li>TPQ: Threshold Planning Quantity</li> <li>TSCA: Toxic Substance Control Act</li> <li>TWA: Time Weighted Average</li> <li>WHMIS: Workplace Hazardous Materials Identification System</li> </ul>
References	<ul> <li>Canadian Centre for Occupational Health and Safety (CCOHS), CCInfoWeb databases, 2015 (CHEMINFO, HSDB and RTECS).</li> <li>OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015</li> </ul>
	European Chemicals Agency, Classification Legislation, 2015 Material Safety Data Sheet from manufacturer
Proposition Data (mm/dd/sam)	Information taken from reference works and the literature.
Preparation Date (mm/dd/yyyy)	

Preparation Date (mm/dd/yyyy)

: 05/31/2015

#### Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:	
FPPF Chemical Company, Inc. 117 West Tupper Street	
Buffalo, NY, USA 14201	
Telephone: 1-800-735-3773	
Please direct all enquiries to FPPF Chemical Company	
Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com	icc Compliance Center

### DISCLAIMER

This Material Safety Data Sheet was prepared by ICC The Compliance Center Inc using information provided by / obtained from FPPF Chemical Company, Inc and CCOHS' Web Information Service. The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and FPPF Chemical Company, Inc expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc and FPPF Chemical Company, Inc.

#### **END OF DOCUMENT**

MATERIAL SAFETY DATA SHEET Effective Date: 8/10/04

Revised Date: Jamuary 2006



(800) 735-3773

**Chemical Product and Company Identification** 

FPPF Chemical Company; 117 West Tupper Street; Buffalo, NY 14201-2193 24-Hour Product Emergency Hotline Number: (800) 424-9300 Product Name: Hot 4-in-1 Heating Oil Treatment Product Codes: 00161, 90161, 00164, 90164, 00163

Section 1

Section 2

Identification

FP-SL153

Not Applicable Not Regulated Not Applicable NA 1993

**FPPF Hot Oil Treatment** 

Combustible liquid, n.o.s.

Trade Name: Product Code: U.S. D.O.T. Shipping Name: Technical Name: U.S. D.O.T. Primary Hazard Class: U.S. D.O.T. Secondary Hazard Class: Identification Number: IATA (Airline) Maritime Dasking Croup	
Packing Group	

Hazardous Ingredients - Identity Information

Combustible liquid, n.o.s. UN 1993 Combustible liquid, n.o.s. UN 1993

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV
Aliphatic naptha	64742-88-7	100 ppm	100 ppm
Trimethylbenzene	95-63-6	25 ppm	25 ppm
Ethylene glycol monobutyl ether**	111-76-2	100 ppm	100 ppm
Vinyl acetate	108-05-4	10 ppm	20 ppm
** Reportable under SARA 313 - 50% by we	eight		

Other components, if any, are considered to be non-hazardous as per OSHA 29 CFR 1910.1200

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Section 3 Flash Point: >140°F Tag Closed Cup **Boiling Point:** 235°-240°F Specific Gravity: (H20=1): 0.90 @25°C Vapor Density: (Air=1): Greater Evaporation Rage: (BA=1) Slower % Solids: <10% Weight: (lb/gal): 7.18 Solubility in Water: Slight Viscosity @25°C: 4.8 – 6.8 cps Appearance & Odor: Amber liquid, odor of mineral springs

**Physical & Chemical Characteristics** 

Section 4	Fire & Explosion Hazard Data	
Extinguishing Media: Special Fire Fighting Procedures:	Dry chemical foam, or water fog Protect against decomposition products Wear self-contained breathing apparatus Heating of non-vented container may cause explosion Keep surrounding containers cool with water spray	
Unusual Fire & Explosion Hazards:		
Section 5	Reactivity Data	
Stability: Conditions to Avoid: Hazardous Decomposition Products: Hazardous Polymerization:	Stable Contact with open flame Carbon monoxide and unidentified organic compounds may be formed Will not occur	
Section 6	Health Hazard Data	
Signs & Symptoms of Exposure:		
Eyes: Dermal: Inhalation: Ingestion:	Irritation, redness Dryness, irritation, redness Vapors may irritate nose, throat, respiratory tract Nausea, vomiting, dizziness, headache, blurred vision	
Emergency & First Aid Procedures:		
Eyes: Dermal: Inhalation: Acute Health Hazards: Acute Health Hazards: Chronic Health Hazards:	Flush with large amounts of water for 15 minutes Wash with soap and water Remove victim to fresh air Do not induce vomiting; Get medical attention! Irritation of skin and eyes Observations in animals include: blood, kidney and reproductive effects	
Section 7	Spill or Leak Procedures	
STEPS TO BE TAKEN IN CASE MATERIAL IS	RELEASED OR SPILLED:	

Dike area. Remove all sources of ignition. Ventilate area if necessary. Absorb free liquid with earth, sand, clay or absorbent pads and place in non-leak containers for disposal. Flush area for trace residue and dispose of as below.

WASTE DISPOSAL METHOD:

In accordance with Federal, State and Local Laws.

Section 8	Special Protection Information		
Respiratory Protection: Ventilation: Protective Gloves: Eye Protection: Other: Hygienic Practices: NFPA:	Normally note needed in a well ventilated area Mechanical to maintain good air flow Rubber Goggles or safety glasses As needed to minimize exposure Always wash face and hands after contact H-1, F-2, R-0		
Caption 0	Notes		

Section 9

Notes

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in the use of this material.

Revision Date: January 2006