# SECTION 1. IDENTIFICATION

Product identifier used on the label

: Fleet Gas Treatment

Product Code(s) : 00118

Recommended use of the chemical and restrictions on use

: Fuel system treatment. No restrictions on use known.

Chemical family : Mixture.

Name, address, and telephone number 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 Continental U.S.); Chemtrec 703-527-3887

(Outside U.S.).

### SECTION 2. HAZARDS IDENTIFICATION

#### Classification of the chemical

Amber liquid. Petroleum odor.

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 4

Acute Toxiciy, inhalation - Category 4 (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 1 (blood) Specific Target Organ Toxicity, Single Exposure - Category 3 (cns) Specific Target Organ Toxicity, Single Exposure - Category 3 (respiratory)

Specific Target Organ Toxicity, Repeated Exposure - Category 1

# Label elements

# Hazard pictogram(s)





Signal Word

DANGER!

Hazard statement(s)

#### SAFETY DATA SHEET

Combustible liquid.

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

Causes damage to organs if swallowed.

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.

Causes damage to organs through prolonged or repeated exposure.

#### 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. - No smoking. Do not breathe mist or vapors. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Wash hands and face thoroughly after handling.

In case of fire: Use alcohol-resistant foam, carbon dioxide or dry chemical to extinguish. IF exposed or concerned: Get medical attention/advice. If inhaled: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, get medical advice/attention. 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: Burning produces obnoxious and toxic fumes. May be sensitive to static discharge. 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

emical name	Common name and synonyms	CAS#	<u>Concentration</u> 65.3 - 65.5	
Light aromatic solvent naphtha	Aromatic solvent naphtha Solvent Naphtha (Petroleum) Light Aromatic	64742-95-6		
Ethanol	Ethyl alcohol Ethyl hydrate	64-17-5	0.0 - 0.0	
2-Butoxy ethanol	Ethylene Glycol Monobutyl Ether EGBE	111-76-2	9.0 - 11.0	
Heavy aromatic solvent naphtha	Aromatic solvent naphtha Heavy Aromatic Naphtha		7.0 - 8.0	
Manganese, tricarbonyl methylcyclopentadienyl	MMT Methylcyclopentdienyl-mangane se tricarbonyl	12108-13-3	0.5 - 1.5	
Naphthalene	Moth balls Moth flakes Tar camphor	91-20-3	0.5 - 1.5	
1,2,4-Trimethylbenzene	Pseudocumene	95-63-6	0.0 - 0.0	
1,3,5-Trimethyl benzene	Trimethylbenzol Mesitylene	108-67-8	0.0 - 0.0	
Xylene (mixed isomers)	Dimethylbenzene Methyltoluene Xylol	1330-20-7	0.0 - 0.0	

#### SAFETY DATA SHEET

Cumeme	Isopropyl benzene	98-82-8	0.0 - 0.0
	Cumol		
	2-Phenyl propane		

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

#### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

Eye contact

Ingestion : IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Rinse

mouth. Aspiration hazard Do NOT induce vomiting. 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. Take off contaminated clothing and

wash before re-use. Call a POISON CENTRE or doctor/physician if exposed or you

feel unwell. If skin irritation occurs, get medical advice/attention.

: 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.

#### Most important symptoms and effects, both acute and delayed

: IF exposed or concerned: Get medical attention/advice.

Harmful if inhaled. Symptoms may include coughing, choking and wheezing. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Symptoms may include severe abdominal pain, nausea and vomiting. Harmful in contact with skin. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation.

Causes skin irritation. Symptoms include redness, swelling and sloughing of skin cells (flaking).

Causes serious eye irritation. Symptoms may include tearing, redness and discomfort. Causes damage to organs if swallowed. Contains material which may cause adverse blood system effects.

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. May cause respiratory irritation. Symptoms may include upper respiratory irritation,

coughing and breathing difficulties.

May cause drowsiness and dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

May cause damage to organs through prolonged or repeated exposure.

# Indication of any immediate medical 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.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

#### Special hazards arising from the substance or mixture / Conditions of flammability

: Combustible liquid Keep away from flames and hot surfaces. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. This product will accumulate static charge by flow, splashing or agitation. Vapours are heavier than air and collect in confined and low-lying areas. Vapors may travel considerable distance to a source of ignition and flash back. 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.

### Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquid - Category 4

### **Hazardous combustion products**

 Carbon monoxide, carbon dioxide, reactive hydrocarbons, aldehydes and other irritant gases, which may include toxic constituents.

#### Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

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 RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Keep all other personnel upwind and away from the spill/release. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

#### **Environmental precautions**

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

## Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. Bond and ground transfer containers and equipment to avoid static accumulation. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

### 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):

Naphthalene (100 lbs / 45.4 kg);

Methylcyclopenta dienyl-manganese tricarbonyl (100 lbs / 45.4 kg);

Xylene (100 lbs / 45.4 kg); Cumene (5000 lbs / 2270 kg).

# 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. Do not breathe mist or vapors. Do not eat, drink or smoke when using this product. Do not ingest. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Use proper bonding and grounding techniques when transferring liquid. Avoid contact with incompatible materials.

Conditions for safe storage

: Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up. 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 Hydrogen peroxide; Bases.

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

Chemical Name	ACGIH T	TLV	OSHA P	<u>EL</u>
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Light aromatic solvent naphtha	N/Av	N/Av	N/Av	N/Av
Ethanol	N/Av	1000 ppm	1000ppm (1900mg/m³)	N/Av
2-Butoxy ethanol	20 ppm	N/Av	50 ppm (skin)	N/Av
Heavy aromatic solvent naphtha	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	N/Av
Manganese, tricarbonyl methylcyclopentadienyl	0.2 mg/m³ (as Mn)	N/Av	0.2mg/m³ (as Mn) (final rule)	N/Av
Naphthalene	10 ppm (skin)	N/Av	10 ppm ; 50 mg/m³	15ppm; 75mg/m
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

#### **Exposure controls**

Skin protection

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.

: Wear protective gloves. 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.

shield may also be necessary.

Ensure that eyewash stations and safety showers are close to the workstation location. Other protective equipment

Other equipment may be required depending on workplace standards.

### General hygiene considerations

Do not breathe mist or vapors. 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. Handle in accordance with good industrial hygiene and safety practice.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Amber liquid.

Odour : Odor of ether and petroleum distillates.

Odour threshold : N/Av
pH : N/Av
Melting/Freezing point : N/Av
Initial boiling point and boiling range

: N/Av

Flash point : >61.1°C / >142°F
Flashpoint (Method) : Tag closed cup

Evaporation rate (BuAe = 1) : N/AvFlammability (solid, gas) : N/Ap

Lower flammable limit (% by vol.)

N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties : None known.

Relative density / Specific gravity

0.84

Solubility in water : 48% Other solubility(ies) : N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av

Auto-ignition temperature : N/Av
Decomposition temperature : N/Av
Viscosity : N/Av
Volatiles (% by weight) : N/Av
Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Ap

Flame projection length : N/Ap

. IV/AP

Other physical/chemical comments

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**: Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur. Keep away from flames and hot surfaces.
 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 : Avoid heat and open flame. Keep away from direct sunlight. Ensure adequate

ventilation, especially in confined areas. Avoid contact with incompatible materials.

Incompatible materials : Strong oxidizing agents; Acids Hydrogen peroxide; Bases.

#### Hazardous decomposition products

 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

: Harmful if inhaled. Inhalation may cause respiratory irritation and central nervous system depression. May cause coughing and breathing difficulties. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

### Sign and symptoms ingestion

: 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. Causes damage to organs if swallowed. Contains material which may cause adverse blood system effects. 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

Harmful 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

: May cause damage to the blood system, the liver and the kidneys through prolonged or repeated exposure. Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage.

# 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 Naphthalene. Naphthalene is classified as carcinogenic by IARC (Group 2B) and NTP (Group 2 - Reasonably anticipated). Contains Cumene. Cumene is classified as possibly carcinogenic by IARC (Group 2B).

#### Reproductive effects & Teratogenicity

 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 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.

#### SAFETY DATA SHEET

Sensitization to material : Not expected to be a skin sensitizer.

Not expected to be a respiratory sensitizer.

Specific target organ effects

Eyes, skin, respiratory system, digestive system, central nervous system, blood

system.

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 1 Causes damage to organs. Excessive overexposure could cause blood system effects (anemia). Contains

Naphthalene

Specific target organ toxicity - single exposure Category 3 May cause drowsiness and

dizziness. May cause respiratory irritation.

Specific target organ toxicity - repeated exposure Category 1 Causes damage to organs through prolonged or repeated exposure. May cause damage to lungs, liver, and kidneys through prolonged or repeated exposure if inhaled. Contains

Methylcyclopenta dienyl-manganese tricarbonyl

Medical conditions aggravated by 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 = 453mg/kg ATE dermal = 1438mg/kg

ATE inhalation (vapours) =16.8mg/L/4H ATE inhalation (mists) = 7.3mg/L/4H

See below for individual ingredient acute toxicity data.

	LC <sub>50</sub> (4hr)	LD50			
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)		
Light aromatic solvent	>17.7mg/L/4H (vapour)	8400 mg/kg	>3160 mg/kg		
Ethanol	> 32 380 ppm (61 mg/L) (vapour)	7060 mg/kg	> 15 800 mg/kg		
2-Butoxy ethanol	450 ppm (2.175 mg/L)	530 mg/kg	400 - 500 mg/kg		
Heavy aromatic solvent	> 17.1 mg/L/4 hours	> 6000 mg/kg	> 3160 mg/kg		
Manganese, tricarbonyl methylcyclopentadienyl	8.5 ppm (0.076mg/L (mist) )	22.9 mg/kg	140 mg/kg		
Naphthalene	No information available.	490 mg/kg	>20,000 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 >3160			
Kylene (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		

# Other important toxicological hazards

: None known or reported by the manufacturer.

#### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**: No data is available on the product itself.

See the following tables for individual ingredient ecotoxicity data.

# 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.		
Ethanol	64-17-5	> 100 mg/L (Fathead minnow)	N/Av	None.		
2-Butoxy ethanol	111-76-2	1490 mg/L (Bluegill)	>100mg/L (Zebra fish)	None.		
Heavy aromatic solvent naphtha	64742-94-5	3.6 mg/L (Rainbow trout)	N/Av	None.		
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	0.21mg/L (common carp)	N/Av	None.		
Naphthalene	91-20-3	0.96 mg/L (pink salmon)	0.12mg/L (40 days) (pink salmon)	None.		
1,2,4-Trimethylbenzene	95-63-6	7.72 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.		

<u>Ingredients</u>	CAS No	Toxi	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.		
Ethanol	64-17-5	5012 mg/L (Daphnia magna)	>100mg/L	None.		
2-Butoxy ethanol	111-76-2	835mg/L (Daphnia magna)	100mg/L (Daphnia magna)	None.		
Heavy aromatic solvent naphtha	64742-94-5	1.1 mg/L (Water flea)	N/Av	None.		
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	0.83mg/L (Daphnia magna)	N/Av	None.		
Naphthalene	91-20-3	3.4 mg/L/ Water flea	0.6mg/L	None.		
1,2,4-Trimethylbenzene	95-63-6	3.6 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.		

<u>Ingredients</u>	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		
Ethanol	64-17-5	1000 mg/L/96hr (Green algae)	N/Av	None.		
2-Butoxy ethanol	111-76-2	911mg/L/72hr	286mg/L/72hr	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.		
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	1.7mg/L/48hr (Pseudokirchneriella subcapitate)	N/Av	None.		
Naphthalene	91-20-3	0.4mg/L/72hr (Marine diatom)	N/Av	None.		
1,2,4-Trimethylbenzene	95-63-6	2.356mg/L/96hr	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.		

### Persistence and degradability

: No data is available on the product itself. The following ingredients are considered to be readily biodegradable: Ethanol; Xylene; Cumene; Ethylene glycol monobutyl ether

### **Bioaccumulation potential**

: No data is available on the product itself. See the following data for ingredient

<u>Components</u>	Partition coefficent n-octanol/ater (log Kow)	Bioconcentration factor (BCF)
Light aromatic solvent naphtha (CAS 64742-95-6)	2.1 - 6(calculated)	10 - 2500
Ethanol (CAS 64-17-5)	- 0.31	No information available.
2-Butoxy ethanol (CAS 111-76-2)	0.81 at 25 °C	0.97
Heavy aromatic solvent naphtha (CAS 64742-94-5)	2.9 - 6.1	No information available.
Manganese, tricarbonyl methylcyclopentadienyl (CAS 12108-13-3)	3.4 - 3.7	200 in fish
Naphthalene (CAS 91-20-3)	3.7	30 - 430 species: fish
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	50 - 58
Cumeme (CAS 98-82-8)	3.55 at 23 °C	224

Mobility in soil

: No data is available on the product itself.

# 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

# **Handling for Disposal**

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

# **SAFETY DATA SHEET**

Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local

RCRA : If this pro

: 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.

Regulatory Information	·		Transport hazard class(es)	Packing Group	Label
49CFR/DOT	NA1993	Combustible liquid, n.o.s. (Aromatic naphtha; Ethanol)	Combustible.	III	COMBUSTIBLE
49CFR/DOT Additional information	appearing here i	r road or rail shipment if packaged in non-bulk containers (4 is the placard to be used for bulk shipments. eets the criteria for an environmentally hazardous material ac	,		
TDG	None	Not regulated.	not regulated	none	$\otimes$

Special precautions for user

: Keep away from flames and hot surfaces. - No smoking.

**Environmental hazards** 

This product meets the criteria for an environmentally hazardous material according to 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:

<u>Ingredients</u>		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
	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	
Ethanol	64-17-5	Yes	None.	None.	No	N/Ap	
2-Butoxy ethanol	111-76-2	Yes	N/Ap	N/Av	No	N/Ap	
Heavy aromatic solvent naphtha	64742-94-5	Yes	N/Ap	N/Ap	No	N/Ap	
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	Yes	100 lb	100 lb TPQ	Yes	1%	
Naphthalene	91-20-3	Yes	100 lb/ 45.4 kg	N/Av	Yes	0.1%	
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%	

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#	Californ	ia Proposition 65	State "Right to Know" Lists					
<u>myredients</u>	CAS#	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
Ethanol	64-17-5	Yes	Cancer	Yes	Yes	Yes	Yes	Yes	Yes
2-Butoxy ethanol	111-76-2	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Heavy aromatic solvent naphtha	64742-94-5	No	Not listed	No	No	No	No	No	No
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	No	Not listed	No	Yes	Yes	Yes	Yes	No
Naphthalene	91-20-3	Yes	Carcinogen	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

# **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:

<u>Ingredients</u>	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
Ethanol	64-17-5	200-578-6	Present	Present	(2)-202	KE-13217	Present	HSR001144
2-Butoxy ethanol	111-76-2	203-905-0	Present	Present	(7)-97; (2)-407	KE-04134	Present	HSR001154
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
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	235-166-5	Present	Present	(3)-2558	KE-34053	Present	May be used as a single component chemical under an appropriate group standard
Naphthalene	91-20-3	202-049-5	Present	Present	(4)-311	KE-25545	Present	HSR001287
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

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

### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations 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

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

NJ: New Jersey

NOEC: No observable effect concentration NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit

PICCS: Philippine Inventory of Chemicals and Chemical Substances

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island

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

Canadian Centre for Occupational Health and Safety (CCOHS), CCInfoWeb

databases, 2015 (CHEMINFO, HSDB and RTECS).

OECD- The Global Portal to Information on Chemical Substances - eChemPortal,

2015

European Chemicals Agency, Classification Legislation, 2015

Material Safety Data Sheet from manufacturer

Information taken from reference works and the literature.

Preparation Date (mm/dd/yyyy)

: 07/07/2015

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

#### Prepared for:

References

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Please direct all enquiries to FPPF Chemical Company

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