

**SAFETY DATA SHEET****SECTION 1. IDENTIFICATION****Product identifier used on the label**: **Custom Formula Winter****Other means of identification** : Not available.**Recommended use of the chemical and restrictions on use**

: Fuel Injector Cleaner. No restrictions on use known.

**Chemical family**

: Mixture.

**Name, address, and telephone number of the manufacturer:****FPPF Chemical Company, Inc.**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.).**Name, address, and telephone number of the supplier:**

Refer to manufacturer

**SECTION 2. HAZARDS IDENTIFICATION****Classification of the chemical**

Colourless to slightly hazy liquid. Slight petroleum hydrocarbon 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 Liquids - Category 3

Aspiration Toxicity - Category 1

Reproductive toxicity - Category 2

Carcinogenicity -Category 2

Specific target organ toxicity, single exposure - Category 3 (narcotic effects)

Specific Target organ toxicity, repeated exposure- Category 1

**Label elements***Hazard pictogram(s)**Signal Word*

DANGER!

*Hazard statement(s)*

Flammable liquid and vapor.

May be fatal if swallowed and enters airways.

Suspected of damaging the unborn child.

Suspected of causing cancer.

May cause drowsiness and dizziness.

Causes damage to organs through prolonged or repeated exposure.

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### Precautionary statement(s)

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat, sparks and open flame - No smoking.  
 Ground and bond container and receiving equipment.  
 Use explosion-proof electrical and ventilating equipment.  
 Use non-sparking tools.  
 Take precautionary measures against static discharge.  
 Do not breathe mist or vapor.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Wash thoroughly after handling.  
 Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical attention/advice.  
 Get medical advice/attention if you feel unwell.  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
 In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

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.  
 May be mildly irritating to skin, eyes and respiratory system. 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

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
<b>Light aromatic solvent naphtha</b>	Aromatic solvent naphtha Solvent Naphtha (Petroleum) Light Aromatic	64742-95-6	<b>45.0 - 70.0</b>
<b>1,2,4-Trimethylbenzene</b>	Pseudocumene	95-63-6	<b>10.0 - 30.0</b>
<b>Heavy aromatic solvent naphtha</b>	Aromatic solvent naphtha Heavy Aromatic Naphtha	64742-94-5	<b>3.0 - 7.0</b>
<b>trimethylbenzene</b>	Trimethylbenzene (mixed isomers) Methylxylenes	25551-13-7	<b>1.0 - 5.0</b>
<b>2-Ethylhexyl nitrate</b>	2EHN	27247-96-7	<b>1.0 - 5.0</b>
<b>1,3,5-Trimethylbenzene</b>	Mesitylene Trimethylbenzol	108-67-8	<b>1.0 - 5.0</b>
<b>Xylene (mixed isomers)</b>	Dimethylbenzene Methyltoluene Xylol	1330-20-7	<b>1.0 - 5.0</b>
<b>Cumene</b>	Cumol	98-82-8	<b>0.5 - 1.5</b>
<b>Naphthalene</b>	Moth balls Moth flakes Tar camphor	91-20-3	<b>0.1 - 1.0</b>
<b>Ethylbenzene</b>	Ethylbenzol Phenylethane	100-41-4	<b>0.1 - 1.0</b>

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

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### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. 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 CENTER 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.
- Eye contact* : 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.  
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.  
May cause drowsiness and dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.  
Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.  
Suspected of damaging the unborn child. Symptoms may include reduced fetal weight, delayed ossification and persistent behavioural effects.  
Direct skin contact may cause slight or mild, transient irritation.  
Direct eye contact may cause slight or mild, transient irritation.  
Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing. Causes damage to organs through prolonged or repeated exposure.

Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights. 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, based on animal data.

#### 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

- : Flammable liquid and vapor. Keep away from heat, sparks and open flames. May accumulate static charge by flow or agitation. 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.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquids - Category 3

#### Hazardous combustion products

- : Carbon oxides; Reactive hydrocarbons ; Aldehydes ; Other irritating fumes and smoke.

#### Special protective equipment and precautions for firefighters

*Protective equipment for fire-fighters*

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- : 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. 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. Bond and ground transfer containers and equipment to avoid static accumulation. Pick up and transfer to properly labeled 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)

Xylene (100 lbs / 45.4 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 heat, sparks and open flame - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/clothing and eye/face protection. Do not breathe mist or vapor. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. 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. Store away from incompatibles and out of direct sunlight. Take measures to prevent the build up of electrostatic charge. 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. Perchloric acid.

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

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</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
1,2,4-Trimethylbenzene	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Heavy aromatic solvent naphtha	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	N/Av
trimethylbenzene	25 ppm	N/Av	25 ppm (final rule limit)	N/Av
2-Ethylhexyl nitrate	N/Av	N/Av	N/Av	N/Av
1,3,5-Trimethylbenzene	25 ppm (mixed isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Xylene (mixed isomers)	100 ppm	150 ppm	100 ppm (435 mg/m <sup>3</sup> )	N/Av
Cumene	50 ppm	N/Av	50 ppm (245 mg/m <sup>3</sup> ) (Skin)	N/Av
Naphthalene	10 ppm (skin)	N/Av	10 ppm ; 50 mg/m <sup>3</sup>	15ppm; 75mg/m <sup>3</sup>
Ethylbenzene	20 ppm	N/Av	100 ppm (435 mg/m <sup>3</sup> )	N/Av

**Exposure controls**

**Ventilation and engineering measures**

- : Use only outdoors or in a well-ventilated area. Use explosion-proof electrical and ventilating equipment. 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. 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.

**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. 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. Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : Clear to slightly hazy liquid.

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**Odour** : Slight petroleum hydrocarbon odor.  
**Odour threshold** : N/Av  
**pH** : N/Av  
**Melting Point/Freezing point** : N/Av

**Initial boiling point and boiling range**

: >154°C / >310°F

**Flash point** : 42.2°C / 108°F

**Flashpoint (Method)** : Tag closed cup

**Evaporation rate (BuAe = 1)** : Slower than n-butyl acetate

**Flammability (solid, gas)** : N/Av

**Lower flammable limit (% by vol.)**

: N/Av

**Upper flammable limit (% by vol.)**

: N/Av

**Oxidizing properties** : None known.

**Explosive properties** : N/Av

**Vapour pressure** : <3mm Hg @ 20°C

**Vapour density** : >1

**Relative density / Specific gravity**

: 0.792

**Solubility in water** : Insoluble.

**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/Av

**Flame projection length** : N/Av

**Other physical/chemical comments**

: None reported by the manufacturer.

**SECTION 10. STABILITY AND REACTIVITY**

**Reactivity** : Not normally reactive.

**Chemical stability** : Stable under normal conditions.

**Possibility of hazardous reactions**

: Hazardous polymerization will not occur. May be sensitive to static discharge.

**Conditions to avoid** : Keep away from heat, sparks and flame. 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; Perchloric acid

**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

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**Routes of entry Ingestion** : YES

**Routes of exposure skin absorption**  
: NO

**Potential Health Effects:**

**Signs and symptoms of short-term (acute) exposure**

*Sign and symptoms Inhalation*

- : May cause drowsiness or dizziness. Causes central nervous system depression. Symptoms include: Upper respiratory irritation, coughing, sneezing, staggering gait, giddiness, drowsiness, slurred speech, nausea, and possible nervous system depression. Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing.

*Sign and symptoms ingestion*

- : 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. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. Ingestion may cause symptoms similar to inhalation.

*Sign and symptoms skin*

- : Direct skin contact may cause slight or mild, transient irritation.

*Sign and symptoms eyes*

- : Direct eye contact may cause slight or mild, transient irritation.

**Potential Chronic Health Effects**

- : Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

**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).

**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.

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**

- : 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 3  
May cause drowsiness and dizziness.

Specific Target organ toxicity, repeated exposure- Category 1  
Causes damage to organs through prolonged or repeated exposure.

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**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 = 416667mg/kg

ATE dermal = 25000mg/kg

ATE inhalation (vapours) =23.3mg/L/4H

ATE inhalation (mists) = 305mg/L/4H

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Light aromatic solvent naphtha	>17.7mg/L/4H (vapour)	8400 mg/kg	>3160 mg/kg
1,2,4-Trimethylbenzene	18 mg/L	5000 mg/kg	> 3160 mg/kg
Heavy aromatic solvent naphtha	> 17.1 mg/L/4 hours	> 6000 mg/kg	> 3160 mg/kg
trimethylbenzene	18 - 24 mg/L (vapour)	8970 mg/kg	> 3160 mg/kg
2-Ethylhexyl nitrate	>4.6mg/L	960mg/kg	N/Av
1,3,5-Trimethylbenzene	24 mg/L (vapour)	23 000 mg/kg	> 3160 mg/kg
Xylene (mixed isomers)	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg
Cumene	8000 ppm (39 mg/L) (vapour)	2260 mg/kg	10 627 mg/kg
Naphthalene	No information available.	490 mg/kg	>20,000 mg/kg
Ethylbenzene	4000 ppm (17.4 mg/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.

See the following tables for individual ingredient ecotoxicity data.



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**Ecotoxicity data:**

<u>Ingredients</u>	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Light aromatic solvent naphtha	64742-95-6	9.22 mg/L (Rainbow trout)	N/Av	None.
1,2,4-Trimethylbenzene	95-63-6	7.19 - 8.28 mg/L (Fathead minnow)	N/Av	None.
Heavy aromatic solvent naphtha	64742-94-5	3.6 mg/L (Rainbow trout)	N/Av	none
trimethylbenzene	25551-13-7	7.72 mg/L (Fathead minnow) (Read-across)	N/Av	None.
2-Ethylhexyl nitrate	27247-96-7	2mg/L (Zebra fish)	N/Av	None.
1,3,5-Trimethylbenzene	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.
Cumene	98-82-8	4.8 mg/L (Rainbow trout)	N/Av	None.
Naphthalene	91-20-3	0.96 mg/L (pink salmon)	0.12mg/L (40 days) (pink salmon)	none
Ethylbenzene	100-41-4	4.2 mg/L (Rainbow trout)	1.13 mg/L (30 days) (QSAR)	None.

<u>Ingredients</u>	CAS #	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.
1,2,4-Trimethylbenzene	95-63-6	6.14 mg/L (Daphnia magna)	N/Av	None.
Heavy aromatic solvent naphtha	64742-94-5	1.1 mg/L Water flea	N/Av	none
trimethylbenzene	25551-13-7	2.7 mg/L (Daphnia magna) (Read-across)	0.4 mg/L (Read-across)	None.
2-Ethylhexyl nitrate	27247-96-7	>12.6mg/L	N/Av	None.
1,3,5-Trimethylbenzene	108-67-8	6 mg/L (Daphnia magna)	N/Av	None.
Xylene (mixed isomers)	1330-20-7	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.
Cumene	98-82-8	4 mg/L/24hr (Daphnia magna)	N/Av	None.
Naphthalene	91-20-3	3.4 mg/L/ Water flea	0.6mg/L	none
Ethylbenzene	100-41-4	1.81 mg/L (Daphnia magna)	N/Av	None.

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Ingredients	CAS #	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
1,2,4-Trimethylbenzene	95-63-6	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
trimethylbenzene	25551-13-7	5.7 mg/L/72hr (Green algae) (Read-across)	0.38 mg/L/72hr (Read-across)	None.
2-Ethylhexyl nitrate	27247-96-7	<0.8mg/L	1.42mg/L	None.
1,3,5-Trimethylbenzene	108-67-8	3.191 mg/L/96hr (Green algae) (QSAR)	N/Av	None.
Xylene (mixed isomers)	1330-20-7	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.
Cumene	98-82-8	2.6 mg/L/72hr (Green algae)	N/Av	None.
Naphthalene	91-20-3	0.4mg/L/72hr (Marine diatom)	N/Av	none
Ethylbenzene	100-41-4	3.6 mg/L/96hr (Green algae)	3.4 mg/L/96hr	None.

**Persistence and degradability**

: No data is available on the product itself.  
The following ingredients are considered to be readily biodegradable: 2-Ethylhexanol

**Bioaccumulation potential**

: No data is available on the product itself.

See the following data for ingredient information.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Light aromatic solvent naphtha (CAS 64742-95-6)	2.1 - 6(calculated)	No information available.
Naphthalene (CAS 91-20-3)	3.7	30 - 430 species: fish
1,2,4-Trimethylbenzene (CAS 95-63-6)	3.78	No information available.
Xylene (mixed isomers) (CAS 1330-20-7)	3.12 - 3.2	0.6 - 15
Heavy aromatic solvent naphtha (CAS 64742-94-5)	2.9 - 6.1	61 - 159 species: fish
Cumene (CAS 98-82-8)	3.55	224 (calculated)
Ethylbenzene (CAS 100-41-4)	3.15	1.1 - 1.5
trimethylbenzene (CAS 25551-13-7)	3.63	42 - 328 (common carp)
2-Ethylhexyl nitrate (CAS 27247-96-7)	5.24	1332
1,3,5-Trimethylbenzene (CAS 108-67-8)	3.6 - 3.93	23 - 328

**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.

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- 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. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1993	FLAMMABLE LIQUID, N.O.S. (stoddard solvent; Aromatic naphtha)	3	III	
<b>49CFR/DOT Additional information</b>	Not regulated for road or rail shipment if packaged in non-bulk containers (450 L / 119 Gallons or less each). Refer to 49 CFR Section 173.150. This product meets the criteria for an environmentally hazardous material according to the IMDG Code.				
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (stoddard solvent; Aromatic naphtha)	3	III	
<b>TDG Additional information</b>	This material may be shipped as non-regulated material when in small means of containment (<450 Litres), provided the requirements of TDG section 1.33 are met. This product meets the criteria for an environmentally hazardous material according to the IMDG Code.				

- Special precautions for user** : Keep away from heat, sparks and open flame - 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:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Light aromatic solvent naphtha	64742-95-6	Yes	N/Ap	N/Ap	No	N/Ap
1,2,4-Trimethylbenzene	95-63-6	Yes	N/Ap	N/Ap	Yes	1%
Heavy aromatic solvent naphtha	64742-94-5	Yes	N/Ap	N/Av	No	N/Ap
trimethylbenzene	25551-13-7	Yes	None.	None.	No	N/Ap
2-Ethylhexyl nitrate	27247-96-7	Yes	None.	N/Ap	No	N/Ap
1,3,5-Trimethylbenzene	108-67-8	Yes	None.	None.	No	N/Ap
Xylene (mixed isomers)	1330-20-7	Yes	100 lb/ 45.4 kg	None.	Yes	1%
Cumene	98-82-8	Yes	5000 lb/ 2270 kg	None.	Yes	1%
Naphthalene	91-20-3	Yes	100 lb/ 45.4 kg	N/Av	Yes	0.1%
Ethylbenzene	100-41-4	Yes	1000 lb/ 454 kg	None.	Yes	0.1%

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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Physical hazards (Flammable )Health hazards (Carcinogenicity ;Reproductive toxicity ;Aspiration hazard :Acute toxicity ;Specific target organ toxicity, single exposure ).Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or 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:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		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
1,2,4-Trimethylbenzene	95-63-6	No	Not listed	No	Yes	Yes	Yes	Yes	No
Heavy aromatic solvent naphtha	64742-94-5	No	Not listed	No	No	No	No	No	No
trimethylbenzene	25551-13-7	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
2-Ethylhexyl nitrate	27247-96-7	No	N/Ap	No	No	NS	No	Yes	NS
1,3,5-Trimethylbenzene	108-67-8	No	N/Ap	Yes	Yes	No	No	No	No
Xylene (mixed isomers)	1330-20-7	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Cumene	98-82-8	Yes	Cancer	Yes	Yes	Yes	Yes	Yes	Yes
Naphthalene	91-20-3	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes
Ethylbenzene	100-41-4	Yes	Cancer	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:

## SAFETY DATA SHEET

Ingredients	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.
1,2,4-Trimethylbenzene	95-63-6	202-436-9	Present	Present	(3)-7; (3)-3427	KE-34410	Present	HSR001382
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.
trimethylbenzene	25551-13-7	247-099-9	Present	Present	(3)-7; (3)-3427	KE-34408	Present	May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.
2-Ethylhexyl nitrate	27247-96-7		N/Av	Listed	N/Av	N/Av	Listed	Listed
1,3,5-Trimethylbenzene	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
Cumene	98-82-8	202-704-5	Present	Present	(3)-32; (3)-22	KE-23957	Present	HSR001184
Naphthalene	91-20-3	202-049-5	Present	Present	(4)-311	KE-25545	Present	HSR001287
Ethylbenzene	100-41-4	202-849-4	Present	Present	(3)-60; (3)-28	KE-13532	Present	HSR001151

## 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

## SAFETY DATA SHEET

N/Ap: Not Applicable  
 N/Av: Not Available  
 NFPA: National Fire Protection Association  
 NIOSH: National Institute of Occupational Safety and Health  
 NOEC: No observable effect concentration  
 NTP: National Toxicology Program  
 NJ: New Jersey  
 NOEC: No observable effect concentration  
 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

**References**

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
- 2. International Agency for Research on Cancer Monographs, searched 2018.
- 3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2018 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - March 2015 version.
- 6. California Proposition 65 List - November 23, 2018 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2018.

**Preparation Date (mm/dd/yyyy)**

: 03/08/2019

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

<p><b><u>Prepared for:</u></b>                  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</p>	
<p><b><u>Prepared by:</u></b>                  ICC The Compliance Center Inc.                  Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada)  <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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