



Fuel Power Maximum Formula

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Fuel Power Maximum Formula**

Other means of identification : Not available.

Recommended use of the chemical and restrictions on use

: Fuel additive. No restrictions on use known.

Chemical family

: Mixture.

Name, address, and telephone number  
of the supplier:

**FPPF Chemical Company, Inc.**

100 Dings St.  
Buffalo, NY, USA  
14206

Supplier's Telephone # : (800) 735-3773

**24 Hr. Emergency Tel #** : PERS: North America 1-800-633-8253; International: +1-801-629-0667  
Contract number: 8027

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Amber liquid. Solvent 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

Skin Irritation - Category 2

Eye damage/irritation -Category 2A

Skin sensitization -Category 1

Aspiration Toxicity - Category 1

Reproductive Toxicity-Category 1

Carcinogenicity- Category 2

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

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

Label elements

Hazard pictogram(s)



Signal Word

DANGER!



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*Hazard statement(s)*

Flammable liquid and vapor.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
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 heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking  
Ground and bond container and receiving equipment.  
Use explosion-proof electrical and ventilating equipment.  
Use non-sparking tools.  
Take action to prevent static discharges.  
Avoid breathing vapors or mists.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wash hands and face thoroughly after handling.  
Wear protective gloves/clothing and eye/face protection.

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 you feel unwell.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.  
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 CENTER or doctor/physician. Do NOT induce vomiting.

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**

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**

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
<b>Distillates, petroleum, hydrotreated light</b>	Hydrotreated kerosene; Distillate Fuel Oils Light	64742-47-8	<b>30.0 - 60.0</b>
<b>2-Ethylhexyl nitrate</b>	Ethylhexyl nitrate Nitric acid, 2-ethylhexyl ester	27247-96-7	<b>30.0 - 60.0</b>
<b>Dipropylene glycol methyl ether</b>	1- (2-Methoxypropoxy)-2-propanol DPGME	34590-94-8	<b>10.0 - 30.0</b>



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Heavy aromatic solvent naphtha	Aromatic solvent naphtha Heavy Aromatic Naphtha	64742-94-5	5.0 - 10.0
Light aromatic solvent naphtha	Aromatic solvent naphtha Solvent Naphtha (Petroleum) Light Aromatic	64742-95-6	1.0 - 5.0
Naphthalene	Moth balls Moth flakes Tar camphor	91-20-3	0.5 - 1.5
1,2,4-Trimethylbenzene	Pseudocumene	95-63-6	0.5 - 1.5
Ethylbenzene	Ethylbenzol; Phenylethane	100-41-4	0.1 - 1.0
2-Ethylhexanol	2-Ethylhexyl Alcohol Ethylhexanol	104-76-7	0.1 - 1.0
Cumeme	Isopropyl benzene	98-82-8	0.1 - 1.0
Xylene (mixed isomers)	Dimethylbenzene Methyltoluene Xylol	1330-20-7	0.1 - 1.0
1,3,5-Trimethylbenzene	Mesitylene Trimethylbenzol	108-67-8	0.1 - 1.0

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

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re-use. If skin irritation or rash 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

- : May cause an allergic skin reaction. Symptoms may include redness, blistering, pain and swelling. Causes skin irritation. 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 serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. 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 cause gastrointestinal irritation, nausea, vomiting and diarrhea. Suspected of causing cancer. Suspected of damaging the unborn child. Prolonged overexposure may cause liver and kidney effects. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

#### 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



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### *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 vapour. Keep away from heat, sparks and open flames. This product will accumulate static charge by flow, splashing or agitation. After prolonged storage, may release explosive peroxides in the presence of air. 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. Aldehydes. Nitrogen oxides. Other irritating fumes and smoke.

### **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. 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**

- : 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): See section 15.

## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for safe handling**



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- : 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. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid breathing mist or vapours. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. 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. 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. 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; Acids; Perchloric acid; Alkalies; Bases.



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### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limits:</b>				
<b><u>Chemical Name</u></b>	<b><u>ACGIH TLV</u></b>		<b><u>OSHA PEL</u></b>	
	<b><u>TWA</u></b>	<b><u>STEL</u></b>	<b><u>PEL</u></b>	<b><u>STEL</u></b>
Distillates, petroleum, hydrotreated light	200 mg/m <sup>3</sup> (as total hydrocarbon vapour)	N/Av	N/Av	N/Av
2-Ethylhexyl nitrate	N/Av	N/Av	N/Av	N/Av
Dipropylene glycol methyl ether	100 ppm (skin)	150 ppm (skin)	100 ppm (600 mg/m <sup>3</sup> ) (skin)	N/Av
Heavy aromatic solvent naphtha	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	N/Av
Light aromatic solvent naphtha	N/Av	N/Av	N/Av	N/Av
Naphthalene	10 ppm (skin)	N/Av	10 ppm ; 50 mg/m <sup>3</sup>	15ppm; 75mg/m <sup>3</sup>
1,2,4-Trimethylbenzene	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Ethylbenzene	20 ppm	N/Av	100 ppm (435 mg/m <sup>3</sup> )	125ppm (545mg/m <sup>3</sup> )
2-Ethylhexanol	N/Av	N/Av	N/Av	N/Av
Cumene	50 ppm	N/Av	50 ppm (245 mg/m <sup>3</sup> ) (Skin)	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

#### **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 explosion-proof electrical and ventilating 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.

##### **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.



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**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. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Contaminated work clothing must not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** : liquid  
**Colour** : Amber  
**Odour** : Solvent odor.  
**Odour threshold** : N/Av  
**pH** : N/Av  
**Melting Point/Freezing point** : N/Av

**Initial boiling point and boiling range**

: N/Av

**Flash point** : >23°C  
**Flashpoint (Method)** : closed cup

**Evaporation rate (BuAe = 1)** : < 1

**Flammability** : N/Av

**Lower explosion or flammability limit (% by vol.)**

: N/Av

**Upper explosion or flammability limit (% by vol.)**

: N/Av

**Oxidizing properties** : None known.

**Explosive properties** : N/Av

**Vapour pressure** : N/Av

**Relative vapour density** : >1

**Relative density / Specific gravity**

: N/Av

**Solubility in water** : N/Av

**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

**Particle characteristics** : 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.



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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Stable under normal conditions.

**Possibility of hazardous reactions**

: No dangerous reaction known under conditions of normal use.

**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; Acids; Bases; Perchloric acid; Alkalies

**Hazardous decomposition products**

: None known, refer to hazardous combustion products in 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

: NO

**Potential Health Effects:**

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

*Sign and symptoms Inhalation*

: Inhalation may cause respiratory irritation and central nervous system depression. May cause coughing and breathing difficulties. Symptoms include: Upper respiratory irritation, coughing, sneezing, staggering gait, giddiness, drowsiness, slurred speech, nausea, and possible nervous system depression.

*Sign and symptoms ingestion*

: Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing.

*Sign and symptoms skin*

: Causes skin irritation. Symptoms may include redness, blistering, pain and swelling.

*Sign and symptoms eyes*

: Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

**Potential Chronic Health Effects**

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

**Mutagenicity**

: Not expected to be mutagenic in humans.

**Carcinogenicity**

: 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 Ethylbenzene. Ethylbenzene is classified as carcinogenic by IARC (Group 2B) and ACGIH (Category A3). Contains Cumene. Cumene is classified as possibly carcinogenic by IARC (Group 2B).

**Reproductive effects & Teratogenicity**

: 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.





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- Sensitization to material** : May cause an allergic skin reaction. Symptoms may include redness, itching and swelling. Not expected to be a respiratory sensitizer.
- Specific target organ effects** : Specific target organ toxicity, single exposure Category 3 May cause drowsiness and dizziness. May cause respiratory irritation.
- Not classified as specific target organ toxicity-repeated exposure.
- Medical conditions aggravated by overexposure** : None known or reported by the manufacturer.
- Synergistic materials** : None reported by the manufacturer.
- Toxicological data** : The calculated ATE values for this mixture are:  
ATE oral = 4240 mg/kg  
ATE dermal = 3200 mg/kg  
ATE inhalation (vapours) =>20mg/L/4H  
See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Distillates, petroleum, hydrotreated light	>5.2 mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg
2-Ethylhexyl nitrate	> 14 mg/L	>10mg/L (>9600mg/kg)	>5 mL/kg (>4800mg/kg)
Dipropylene glycol methyl ether	> 3 mg/L (mist) (No mortality)	5120 mg/kg	9480 mg/kg
Heavy aromatic solvent naphtha	> 17.1 mg/L/4 hours	> 6000 mg/kg	> 3160 mg/kg
Light aromatic solvent naphtha	>17.7mg/L/4H (vapour)	8400 mg/kg	>3160 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
Ethylbenzene	4000 ppm (17.4 mg/L) (vapour)	3500 mg/kg	15 380 mg/kg
2-Ethylhexanol	≥1.2 - <5.3 mg/L	2052mg/kg	No information available.
Cumene	8000 ppm (39 mg/L) (vapour)	2260 mg/kg	10 627 mg/kg
Xylene (mixed isomers)	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg
1,3,5-Trimethylbenzene	24 mg/L (vapour)	23 000 mg/kg	> 3160 mg/kg

### Other important toxicological hazards

- : None known or reported by the manufacturer.

## SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : May be harmful to aquatic life. Do not allow material to contaminate ground water system.  
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
Distillates, petroleum, hydrotreated light	64742-47-8	N/Av	N/Av	N/Av
2-Ethylhexyl nitrate	27247-96-7	2 mg/L (Zebra fish)	N/Av	None.
Dipropylene glycol methyl ether	34590-94-8	> 10,000 mg/L (Fathead minnow)	N/Av	None.
Heavy aromatic solvent naphtha	64742-94-5	3.6 mg/L (Rainbow trout)	N/Av	none
Light aromatic solvent naphtha	64742-95-6	9.22 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
1,2,4-Trimethylbenzene	95-63-6	7.72 mg/L (Fathead minnow)	N/Av	None.
Ethylbenzene	100-41-4	4.2 mg/L (Rainbow trout)	1.13 mg/L/30 days	None.
2-Ethylhexanol	104-76-7	17.1 mg/L (Golden orfe)	N/Av	None.
Cumeme	98-82-8	4.8 mg/L (Rainbow trout)	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.



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<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Distillates, petroleum, hydrotreated light	64742-47-8	N/Av	N/Av	N/Av
2-Ethylhexyl nitrate	27247-96-7	> 12.6 mg/L [Daphnia magna (Water flea)]	N/Av	None.
Dipropylene glycol methyl ether	34590-94-8	1919 mg/L (Daphnia magna)	≥ 0.5 mg/L	None.
Heavy aromatic solvent naphtha	64742-94-5	1.1 mg/L Water flea	N/Av	none
Light aromatic solvent naphtha	64742-95-6	6.16 mg/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	3.6mg/L (Daphnia magna)	N/Av	None.
Ethylbenzene	100-41-4	1.81 mg/L (Daphnia magna)	N/Av	None.
2-Ethylhexanol	104-76-7	39mg/L (Daphnia magna)	N/Av	None.
Cumeme	98-82-8	4 mg/L/24hr (Daphnia magna)	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.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Distillates, petroleum, hydrotreated light	64742-47-8	N/Av	N/Av	N/Av
2-Ethylhexyl nitrate	27247-96-7	1.57 mg/L/72hr (Green algae)	12.6mg/L/72hr	None.
Dipropylene glycol methyl ether	34590-94-8	> 969 mg/L/72hr (Green algae)	969 mg/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
Light aromatic solvent naphtha	64742-95-6	N/Av	N/Av	N/Av
Naphthalene	91-20-3	0.4mg/L/72hr (Marine diatom)	N/Av	none
1,2,4-Trimethylbenzene	95-63-6	2.356mg/L/96hr QSAR	N/Av	None.
Ethylbenzene	100-41-4	3.6 mg/L/96hr (Green algae)	3.4 mg/L/96hr	None.
2-Ethylhexanol	104-76-7	16.6mg/L/72hr (Green algae)	N/Av	None.
Cumeme	98-82-8	2.6 mg/L/72hr (Green algae)	N/Av	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.



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### Persistence and degradability

: No data is available on the degradability of this product.

### Bioaccumulation potential

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

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Light aromatic solvent naphtha	2.1 - 6(calculated)	10 - 2500
Naphthalene	3.7	30 - 430 species: fish
1,2,4-Trimethylbenzene	3.78	31 - 275
Xylene (mixed isomers)	3.12 - 3.2	50 - 58
Heavy aromatic solvent naphtha	>3 - <6.5	No information available.
2-Ethylhexyl nitrate	5.24	No information available.
2-Ethylhexanol	2.9	30
Distillates, petroleum, hydrotreated light	5.1 - 8.8	No information available.
Ethylbenzene	3.15	1.1 - 1.5
Cumene	3.55	224 (calculated)
1,3,5-Trimethylbenzene	3.6 - 3.93	23 - 328
Dipropylene glycol methyl ether	0.0061	< 1

### 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.

### Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations. Do not allow this material to drain into sewers/water supplies.

### 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.







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### 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. (Distillates, petroleum, hydrotreated light)	3	III	
49CFR/DOT Additional information	May be shipped as a Limited Quantity according to packaging 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. ( Distillates, petroleum, hydrotreated light )	3	III	
TDG Additional information	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass.				
ICAO/IATA	UN1993	Flammable liquid, n.o.s. ( Distillates, petroleum, hydrotreated light )	3	III	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				
IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. ( Distillates, petroleum, hydrotreated light )	3	III	
IMDG Additional information	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass.				

**Special precautions for user** : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

### SECTION 15 - REGULATORY INFORMATION

#### US Federal Information:

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



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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 Minimis Concentration
Distillates, petroleum, hydrotreated light	64742-47-8	Yes	N/Ap	N/Ap	No	No
2-Ethylhexyl nitrate	27247-96-7	Yes	N/Ap	N/Ap	No	No
Dipropylene glycol methyl ether	34590-94-8	Yes	None.	None.	No	No
Heavy aromatic solvent naphtha	64742-94-5	Yes	N/Ap	N/Ap	No	No
Light aromatic solvent naphtha	64742-95-6	Yes	N/Ap	N/Ap	No	No
Naphthalene	91-20-3	Yes	100 lb/ 45.4 kg	N/Av	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	N/Ap	N/Ap	Yes	No
Ethylbenzene	100-41-4	Yes	1000 lb/ 454 kg	N/Ap	Yes	Yes
2-Ethylhexanol	104-76-7	Yes	N/Ap	N/Ap	No	No
Cumeme	98-82-8	Yes	5000 lb/ 2270 kg	None.	Yes	Yes
1,3,5-Trimethylbenzene	108-67-8	Yes	None.	None.	No	No
Xylene (mixed isomers)	1330-20-7	Yes	100 lb/ 45.4 kg	N/Ap	Yes	No

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable ;Specific target organ toxicity, single exposure Reproductive toxicity ;Carcinogenicity ;Skin sensitization ;Aspiration hazard ;Eye irritation ;Skin irritation .

### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Distillates, petroleum, hydrotreated light	64742-47-8	No	Not listed	No	No	No	No	No	No
2-Ethylhexyl nitrate	27247-96-7	No	Not listed	No	No	No	No	No	No
Dipropylene glycol methyl ether	34590-94-8	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Heavy aromatic solvent naphtha	64742-94-5	No	Not listed	No	No	No	No	No	No
Light aromatic solvent naphtha	64742-95-6	No	Not listed	No	No	No	No	No	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
Ethylbenzene	100-41-4	Yes	Cancer	Yes	Yes	Yes	Yes	Yes	Yes
2-Ethylhexanol	104-76-7	No	Not listed	No	Yes	No	No	Yes	No
Cumeme	98-82-8	Yes	Cancer	Yes	Yes	Yes	Yes	Yes	Yes
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



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**Canadian Information:**

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

**International Information:**

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

<b><u>Ingredients</u></b>	<b>CAS #</b>	<b>European EINECs</b>	<b>Australia AICS</b>	<b>Philippines PICCS</b>	<b>Japan ENCS</b>	<b>Korea KECI/KECL</b>	<b>China IECSC</b>	<b>NewZealand IOC</b>
Distillates, petroleum, hydrotreated light	64742-47-8	265-149-8	Present	Present	(9)-1700	KE-12550	Present	May be used as a single component chemical under an appropriate group standard.
2-Ethylhexyl nitrate	27247-96-7	248-363-6	Present	Present	(2)-3598	KE-13803	Present	May be used as a single component chemical under an appropriate group standard.
Dipropylene glycol methyl ether	34590-94-8	252-104-2	Present	Present	(7)-97; (2)-426	KE-12230	Present	HSR001402
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.
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.
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
Ethylbenzene	100-41-4	202-849-4	Present	Present	(3)-60; (3)-28	KE-13532	Present	HSR001151
2-Ethylhexanol	104-76-7	203-234-3	Present	Present	(2)-217	KE-13766	Present	HSR001386
Cumene	98-82-8	202-704-5	Present	Present	(3)-32; (3)-22	KE-23957	Present	HSR001184
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

**SECTION 16. OTHER INFORMATION**

**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
ATE: Acute Toxicity Estimate  
AICS: Australian Inventory of Chemical Substances  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980



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DOT: Department of Transportation  
EC50: Effective Concentration 50%  
ENCS: Existing and New Chemical Substances  
EPA: Environmental Protection Agency  
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  
N/Av: Not Applicable /N/Av: Not Available  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and 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

Preparation Date (mm/dd/yyyy)

: 06/09/2022

Reviewed Date SDS (dd/mm/yyyy)

: 23/03/2024

Revision No.

: 2

Revision Information

: Section 9

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