



Fuel Power Maximum Formula

SDS Revision Date (mm/dd/yyyy): 04/01/2024

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Fuel Power Maximum Formula**

Other means of identification : 00200, 00250, 00252P, 00350, 90200, 90250

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 Dingens 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

Acute Toxicity, inhalation - Category 4 (vapor)

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.
Harmful if inhaled.
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 precautionary measures against static discharge.
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

No OSHA defined hazard classes.

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

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Light aromatic naphtha	Proprietary	Proprietary	Proprietary
Cetane improver	Proprietary	Proprietary	Proprietary



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Glycol	Proprietary	Proprietary	Proprietary
Aromatic hydrocarbon 1	Proprietary	Proprietary	Proprietary
Aromatic hydrocarbon 2	Proprietary	Proprietary	Proprietary
Aromatic hydrocarbon 3	Proprietary	Proprietary	Proprietary
Aromatic hydrocarbon 4	Proprietary	Proprietary	Proprietary
Ester	Proprietary	Proprietary	Proprietary
Aromatic hydrocarbon 5	Proprietary	Proprietary	Proprietary
Aromatic hydrocarbon 6	Proprietary	Proprietary	Proprietary
Aromatic hydrocarbon 7	Proprietary	Proprietary	Proprietary
Aromatic hydrocarbon 8	Proprietary	Proprietary	Proprietary

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.



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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. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Indication of any immediate 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 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.



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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

- : 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

<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 naphtha	200 mg/m ³ (as total hydrocarbon vapour)	N/Av	N/Av	N/Av
Cetane improver	N/Av	N/Av	N/Av	N/Av
Glycol	20 ppm	N/Av	50 ppm (skin)	N/Av
Aromatic hydrocarbon 1	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	N/Av
Aromatic hydrocarbon 2	N/Av	N/Av	N/Av	N/Av
Aromatic hydrocarbon 3	10 ppm (skin)	N/Av	10 ppm ; 50 mg/m ³	15ppm; 75mg/m ³
Aromatic hydrocarbon 4	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Ester	N/Av	N/Av	N/Av	N/Av
Aromatic hydrocarbon 5	20 ppm	N/Av	100 ppm (435 mg/m ³)	125ppm (545mg/m ³)
Aromatic hydrocarbon 7	50 ppm	N/Av	50 ppm (245 mg/m ³) (Skin)	N/Av
Aromatic hydrocarbon 6	100 ppm	150 ppm	100 ppm (435 mg/m ³)	N/Av
Aromatic hydrocarbon 8	25 ppm (mixed isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	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 : O) • ^ A A A A ^ , a e @ A a a } • A a a A a c A @ , \ ! • A a A A [• A A A A [\ \ • a a } A [& a a } E A
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General hygiene considerations

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : S a ~ a E
- Color : K A A a ^ i
- Odor : U [| c ^) o f a [i E
- Odor threshold : P E E c
- pH : P E E c
- Melting Point/Freezing point : P E E c
- Initial boiling point and boiling range : P E E c
- Flash point : N G H O
- Flashpoint (Method) : & [• ^ a A ~]
- Evaporation rate (BuAe = 1) : L A
- Flammability (solid, gas) : P E E c
- Lower flammable limit (% by vol.) : P E E c
- Upper flammable limit (% by vol.) : P E E c
- Oxidizing properties : P [] ^ A } [,] E
- Explosive properties : P E E c
- Vapour pressure : P E E c
- Vapour density : N F
- Relative density / Specific gravity : P E E c
- Solubility in water : P E E c
- Other solubility(ies) : P E E c
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : P E E c
- Auto-ignition temperature : P E E c
- Decomposition temperature : P E E c
- Viscosity : P E E c
- Volatiles (% by weight) : P E E c
- Volatile organic Compounds (VOC's) : P E E c
- Particle characteristics : P E E c
- Other physical/chemical comments : P [] ^ A A [i c a A A A o A a ~ a c i A i E

SECTION 10. STABILITY AND REACTIVITY

- Reactivity : P [o f [i { a i ^ A a a a ^ E
- Chemical stability : U c a i A A } a i A [i { a A [] a a a } • E



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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

: Harmful by 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. Chronic overexposure may cause liver, kidney and blood damage.

Mutagenicity

: Not expected to be mutagenic in humans.

Carcinogenicity

: Carcinogenicity- Category 2 Suspected of causing cancer.

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

Contains 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.

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

: May cause an allergic skin reaction. Symptoms may include redness, itching and swelling. Not expected to be a respiratory sensitizer.



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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) = 17.4 mg/L/4H
 See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Light aromatic naphtha	>5.2 mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg
Cetane improver	> 14 mg/L	>10mg/L (>9600mg/kg)	>5 mL/kg (>4800mg/kg)
Glycol	450 ppm (2.175 mg/L)	530 mg/kg	400 - 500 mg/kg
Aromatic hydrocarbon 1	> 17.1 mg/L/4 hours	> 6000 mg/kg	> 3160 mg/kg
Aromatic hydrocarbon 2	>17.7mg/L/4H (vapour)	8400 mg/kg	>3160 mg/kg
Aromatic hydrocarbon 3	No information available.	490 mg/kg	>20,000 mg/kg
Aromatic hydrocarbon 4	18 mg/L	5000 mg/kg	> 3160 mg/kg
Ester	≥1.2 - <5.3 mg/L	2052mg/kg	No information available.
Aromatic hydrocarbon 5	4000 ppm (17.4 mg/L) (vapour)	3500 mg/kg	15 380 mg/kg
Aromatic hydrocarbon 7	8000 ppm (39 mg/L) (vapour)	2260 mg/kg	10 627 mg/kg
Aromatic hydrocarbon 6	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg
Aromatic hydrocarbon 8	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
Light aromatic naphtha	Proprietary	N/Av	N/Av	N/Av
Cetane improver	Proprietary	2 mg/L (Zebra fish)	N/Av	None.
Glycol	Proprietary	1490 mg/L (Lepomis macrochirus)	>100mg/L (Zebra fish)	none
Aromatic hydrocarbon 1	Proprietary	3.6 mg/L (Rainbow trout)	N/Av	none
Aromatic hydrocarbon 2	Proprietary	9.22 mg/L (Rainbow trout)	N/Av	None.
Aromatic hydrocarbon 3	Proprietary	0.96 mg/L (pink salmon)	0.12mg/L (40 days) (pink salmon)	none
Aromatic hydrocarbon 4	Proprietary	7.72 mg/L (Fathead minnow)	N/Av	None.
Ester	Proprietary	17.1 mg/L (Golden orfe)	N/Av	None.
Aromatic hydrocarbon 5	Proprietary	4.2 mg/L (Rainbow trout)	1.13 mg/L/30 days	None.
Aromatic compound 7	Proprietary	4.8 mg/L (Rainbow trout)	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	8.2 mg/L (Rainbow trout)	N/Av	None.
Aromatic hydrocarbon 8	Proprietary	12.52 mg/L (Goldfish)	N/Av	None.



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<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Light aromatic naphtha	Proprietary	N/Av	N/Av	N/Av
Cetane improver	Proprietary	> 12.6 mg/L [Daphnia magna (Water flea)]	N/Av	None.
Glycol	Proprietary	835mg/L (Daphnia magna)	100mg/L (Daphnia magna)	none
Aromatic hydrocarbon 1	Proprietary	1.1 mg/L Water flea	N/Av	none
Aromatic hydrocarbon 2	Proprietary	6.16 mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 3	Proprietary	3.4 mg/L/ Water flea	0.6mg/L	none
Aromatic hydrocarbon 4	Proprietary	3.6mg/L (Daphnia magna)	N/Av	None.
Ester	Proprietary	39mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 5	Proprietary	1.81 mg/L (Daphnia magna)	N/Av	None.
Aromatic compound 7	Proprietary	4 mg/L/24hr (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 8	Proprietary	6 mg/L (Daphnia magna)	N/Av	None.



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<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Light aromatic naphtha	Proprietary	N/Av	N/Av	N/Av
Cetane improver	Proprietary	1.57 mg/L/72hr (Green algae)	12.6mg/L/72hr	None.
Glycol	Proprietary	911mg/L/72hr	286mg/L/72hr	none
Aromatic hydrocarbon 1	Proprietary	7.2 mg/L/72 hours (Green algae)	0.22 mg/L/72 hours (Green algae)	none
Aromatic hydrocarbon 2	Proprietary	N/Av	N/Av	N/Av
Aromatic hydrocarbon 3	Proprietary	0.4mg/L/72hr (Marine diatom)	N/Av	none
Aromatic hydrocarbon 4	Proprietary	2.356mg/L/96hr QSAR	N/Av	None.
Ester	Proprietary	16.6mg/L/72hr (Green algae)	N/Av	None.
Aromatic hydrocarbon 5	Proprietary	3.6 mg/L/96hr (Green algae)	3.4 mg/L/96hr	None.
Aromatic hydrocarbon 7	Proprietary	2.6 mg/L/72hr (Green algae)	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.
Aromatic hydrocarbon 8	Proprietary	3.191 mg/L/96hr (Green algae) (QSAR)	N/Av	None.

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.



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<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Aromatic hydrocarbon 2	2.1 - 6(calculated)	10 - 2500
Glycol	0.81 at 25 °C	0.97
Aromatic hydrocarbon 3	3.7	30 - 430 species: fish
Aromatic hydrocarbon 4	3.78	31 - 275
Aromatic hydrocarbon 7	3.12 - 3.2	50 - 58
Aromatic hydrocarbon 1	>3 - <6.5	No information available.
Cetane improver	5.24	No information available.
Ester	2.9	30
Light aromatic naphtha	5.1 - 8.8	No information available.
Aromatic hydrocarbon 5	3.15	1.1 - 1.5
Aromatic hydrocarbon 6	3.55	224 (calculated)
Aromatic hydrocarbon 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.

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
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.				
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.				

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.

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:



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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
Light aromatic naphtha	Proprietary	Yes	N/Ap	N/Ap	No	N/Ap
Cetane improver	Proprietary	Yes	N/Ap	N/Ap	No	N/Ap
Glycol	Proprietary	Yes	N/Ap	N/Ap	No	N/Ap
Aromatic hydrocarbon 1	Proprietary	Yes	N/Ap	N/Ap	No	N/Ap
Aromatic hydrocarbon 2	Proprietary	Yes	N/Ap	N/Ap	No	N/Ap
Aromatic hydrocarbon 3	Proprietary	Yes	100 lb/ 45.4 kg	N/Av	Yes	0.1%
Aromatic hydrocarbon 4	Proprietary	Yes	N/Ap	N/Ap	Yes	1%
Ester	Proprietary	Yes	N/Ap	N/Ap	No	No
Aromatic hydrocarbon 5	Proprietary	Yes	1000 lb/ 454 kg	N/Ap	Yes	0.1%
Aromatic hydrocarbon 6	Proprietary	Yes	5000 lb/ 2270 kg	None.	Yes	0.1%
Aromatic hydrocarbon 7	Proprietary	Yes	100 lb/ 45.4 kg	N/Ap	Yes	1%
Aromatic hydrocarbon 8	Proprietary	Yes	None.	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable Acute toxicity ;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
Light aromatic naphtha	Proprietary	No	Not listed	No	No	No	No	No	No
Cetane improver	Proprietary	No	Not listed	No	No	No	No	No	No
Glycol	Proprietary	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 1	Proprietary	No	Not listed	No	No	No	No	No	No
Aromatic hydrocarbon 2	Proprietary	No	Not listed	No	No	No	No	No	No
Aromatic hydrocarbon 3	Proprietary	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 4	Proprietary	No	Not listed	No	Yes	Yes	Yes	Yes	No
Ester	Proprietary	No	Not listed	No	Yes	No	No	Yes	No
Aromatic hydrocarbon 5	Proprietary	Yes	Cancer	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 6	Proprietary	Yes	Cancer	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 7	Proprietary	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 8	Proprietary	No	N/Ap	Yes	Yes	No	No	No	No



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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:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECS</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Light aromatic naphtha	Proprietary	Proprietary	Present	Present	Present	Present	Present	May be used as a single component chemical under an appropriate group standard.
Cetane improver	Proprietary	Proprietary	Present	Present	Present	Present	Present	May be used as a single component chemical under an appropriate group standard.
Glycol	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 1	Proprietary	Proprietary	Present	Present	Present	Present	Present	May be used as a single component chemical under an appropriate group standard.
Aromatic hydrocarbon 2	Proprietary	Proprietary	Present	Present	Present	Present	Present	May be used as a single component chemical under an appropriate group standard.
Aromatic hydrocarbon	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Ester	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Hydrocarbon	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic compound	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Hydrocarbon	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present

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



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CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980

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

NOEC: No observable effect concentration

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

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Review Date SDS (mm/dd/yyyy)

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DISCLAIMER

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