



Fuel Power Plus Lubricity®

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Fuel Power Plus Lubricity®**

Other means of identification : 90105, 00112P, 00113, 00113T

Recommended use of the chemical and restrictions on use

: Diesel fuel treatment.
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 No.: 8027

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear to slightly hazy 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

Skin Irritation - Category 2

Eye damage/irritation -Category 2A

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)

Specific Target organ toxicity, repeated exposure- Category 1

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 respiratory irritation.
May cause drowsiness and dizziness.
May be fatal if swallowed and enters airways.
Suspected of causing cancer.
Suspected of damaging the unborn child.
Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from 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 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.
Wear protective gloves/clothing and eye/face protection.
Wash hands and face thoroughly after handling.

If exposed or concerned: Call a POISON CENTER or doctor/physician.
Get medical advice/attention if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.
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

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

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Mineral spirits	Not available	Proprietary	Proprietary



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Glycol ether	Not available	Proprietary	Proprietary
Light aromatic naphtha	Not available	Proprietary	Proprietary
Ester	Not available	Proprietary	Proprietary
Cetane improver	Not available	Proprietary	Proprietary
Heavy aromatic solvent	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 1	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 2	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 3	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 4	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 5	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 6	Not available	Proprietary	Proprietary
Aromatic hydrocarbon 7	Not available	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. 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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. 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.



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Most important symptoms and effects, both acute and delayed

- : May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties.
- May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
- Causes skin irritation. Symptoms may include redness, itching and swelling.
- Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.
- May be fatal if swallowed and enters airways. Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing.
- Symptoms include coughing, shortness of breath and wheezing.
- Suspected of causing cancer. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.

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

Indication of any immediate 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. 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. Nitrogen oxides. Reactive hydrocarbons. Aldehydes. Other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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



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: 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

: 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. 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. 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>
Mineral spirits	100 ppm	N/Av	500 ppm (2900 mg/m ³)	N/Av
Glycol ether	20 ppm	N/Av	50 ppm (skin)	N/Av
Light aromatic naphtha	N/Av	N/Av	N/Av	N/Av
Ester	N/Av	N/Av	N/Av	N/Av
Cetane improver	N/Av	N/Av	N/Av	N/Av
Heavy aromatic solvent	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	N/Av
Aromatic hydrocarbon 1	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Aromatic hydrocarbon 2	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Aromatic hydrocarbon 3	N/Av	N/Av	N/Av	N/Av
Aromatic hydrocarbon 4	10 ppm (skin)	N/Av	10 ppm ; 50 mg/m ³	15ppm; 75mg/m ³
Aromatic hydrocarbon 5	100 ppm	150 ppm	100 ppm (435 mg/m ³)	N/Av
Aromatic hydrocarbon 6	50 ppm	N/Av	50 ppm ; 245 mg/m ³ (Skin)	N/Av
Aromatic hydrocarbon 7	25 ppm (trimethylbenzene isomers)	N/Av	N/Av	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 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 : Other protective equipment, such as an eyewash station and safety shower, may be required depending on exposure and on workplace standards. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Do not breathe 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

Physical state : Liquid.
Color : Clear to slightly hazy amber
Odor : Solvent odor.
Odour threshold : N/Av
pH : N/Av
Melting Point/Freezing point : N/Av

Initial boiling point and boiling range
: >149°C / >300°F

Flash point : 38.3°C / 101°F

Flashpoint (Method) : Tag closed cup

Evaporation rate (BuAe = 1): N/Av

Flammability : N/Av

Lower flammable limit (% by vol.)
: N/Av

Upper flammable limit (% by vol.)
: N/Av

Oxidizing properties : None.

Explosive properties : N/Av

Vapour pressure : <3mm Hg @ 20°C

Vapour density : >1

Relative density / Specific gravity
: 0.83

Solubility in water : Partially soluble.

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) : 87%(approximately)

Volatile organic Compounds (VOC's)
: N/Av

Particle characteristics
: N/Av

Other physical/chemical comments

: None reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.



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- Chemical stability** : Stable under normal conditions.
- Possibility of hazardous reactions** : Hazardous polymerization will not occur. May be sensitive to static discharge. May form explosive peroxides during prolonged exposure to air and heat. Rate of peroxide formation is not known.
- Conditions to avoid** : Keep away from 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 reported by the manufacturer. Refer also to hazardous combustion products, Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

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

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

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

Sign and symptoms ingestion

- : Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. Causes symptoms similar to those listed for inhalation. May be fatal if swallowed and enters airways. Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Symptoms include coughing, shortness of breath and wheezing.

Sign and symptoms skin

- : Causes skin irritation. Symptoms include: Dryness, itching, cracking, burning, redness and swelling.

Sign and symptoms eyes

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

Potential Chronic Health Effects

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

Mutagenicity

- : Not expected to be mutagenic in humans.

Carcinogenicity

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

Classification Carcinogenicity- Category 2 Suspected of causing cancer.

Contains Aromatic hydrocarbon 4 is classified as carcinogenic by IARC (Group 2B) and NTP (Group 2 - Reasonably anticipated).

Contains Cumene. Cumene is classified as possibly carcinogenic by IARC (Group 2B).



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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 1B Suspected of damaging the unborn child. Developmental

Contains 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 or 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. May cause respiratory irritation.

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

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 = 3533.56mg/kg
ATE dermal = 2666.66mg/kg
ATE inhalation (vapours) =14.5mg/L/4H

See below for individual ingredient acute toxicity data.



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<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Mineral spirits	> 5.5 mg/L (vapour)	> 5000 mg/kg	> 3000 mg/kg
Glycol ether	450 ppm (2.175 mg/L)	530 mg/kg	400 - 500 mg/kg
Light aromatic solvent naphtha	>17.7mg/L/4H (vapour)	8400 mg/kg	>3160 mg/kg
Ester	≥1.2 - <5.3 mg/L	2052mg/kg	No information available.
Cetane improver	> 14 mg/L	>10mg/L (>9600mg/kg)	>5 mL/kg (>4800mg/kg)
Heavy aromatic solvent	> 17.1 mg/L/4 hours	> 6000 mg/kg	> 3160 mg/kg
Aromatic hydrocarbon 1	18 mg/L	5000 mg/kg	> 3160 mg/kg
Aromatic hydrocarbon 2	24 mg/L	23 000 mg/kg	>3160mg/kg
Aromatic hydrocarbon 3	159.25mg/L	6040 mg/kg	N/Av
Aromatic hydrocarbon 4	No information available.	490 mg/kg	>20,000 mg/kg
Aromatic hydrocarbon 5	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg
Aromatic hydrocarbon 6	8000 ppm; 39 mg/L	2260 mg/kg	10 627 mg/kg
Aromatic hydrocarbon 7	18 - 24mg/L/4H (based on similar substances)	4472mg/kg	>3160mg/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
Mineral spirits	Proprietary	2.1 - 4.2 mg/L (Bluegill sunfish)	N/Av	None.
Glycol ether	Proprietary	1490 mg/L (Lepomis macrochirus)	>100mg/L (Zebra fish)	none
Light aromatic naphtha	Proprietary	9.22 mg/L (Rainbow trout)	N/Av	None.
Ester	Proprietary	2 mg/L (Zebra fish)	N/Av	None.
Cetane improver	Proprietary	2 mg/L (Zebra fish)	N/Av	None.
Heavy aromatic solvent	Proprietary	3.6 mg/L (Rainbow trout)	N/Av	none
Aromatic hydrocarbon 1	Proprietary	7.19 - 8.28 mg/L (Fathead minnow)	N/Av	None.
Aromatic hydrocarbon 2	Proprietary	12.52 mg/L (Goldfish)	N/Av	None.
Aromatic hydrocarbon 3	Proprietary	1.55mg/L (Rainbow trout)	N/Av	None.
Aromatic hydrocarbon 4	Proprietary	0.96 mg/L (pink salmon)	0.12mg/L (40 days) (pink salmon)	none
Aromatic hydrocarbon 5	Proprietary	8.2 mg/L (Rainbow trout)	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	4.5mg/L (Rainbow trout)	0.38mg/L QSAR	None.
Aromatic hydrocarbon 7	Proprietary	7.8mg/L (Species not specified)	N/Av	None.



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<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Mineral spirits	Proprietary	0.42 - 2.3 mg/L (Daphnia magna) (Closed systems - low end; Open systems - high end)	0.1 - 0.37 mg/L	None.
Glycol ether	Proprietary	835mg/L (Daphnia magna)	100mg/L (Daphnia magna)	none
Light aromatic naphtha	Proprietary	6.16 mg/L (Daphnia magna)	N/Av	None.
Ester	Proprietary	>12.6mg/L (Daphnia magna)	N/Av	None.
Cetane improver	Proprietary	> 12.6 mg/L [Daphnia magna (Water flea)]	N/Av	None.
Heavy aromatic solvent	Proprietary	1.1 mg/L Water flea	N/Av	none
Aromatic hydrocarbon 1	Proprietary	6.14 mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 2	Proprietary	6 mg/L (Daphnia magna)	0.4mg/L	None.
Aromatic hydrocarbon 3	Proprietary	2mg/L/24hr	N/Av	None.
Aromatic hydrocarbon 4	Proprietary	3.4 mg/L/ Water flea	0.6mg/L	none
Aromatic hydrocarbon 5	Proprietary	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	2.14 mg/L (Daphnia magna)	0.35mg/L	None.
Aromatic hydrocarbon 7	Proprietary	2.7mg/L Water flea	N/Av	None.



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<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Mineral spirits	Proprietary	0.58 - 1.2 mg/L/72hr (Green algae) (Closed systems - low end; Open systems - high end)	0.16 mg/L/72hr	None.
Glycol ether	Proprietary	911mg/L/72hr	286mg/L/72hr	none
Light aromatic naphtha	Proprietary	N/Av	N/Av	N/Av
Ester	Proprietary	1.57mg/L/72hr (Green algae)	12.6mg/L/72hr	None.
Cetane improver	Proprietary	1.57 mg/L/72hr (Green algae)	12.6mg/L/72hr	None.
Heavy aromatic solvent	Proprietary	7.2 mg/L/72 hours (Green algae)	0.22 mg/L/72 hours (Green algae)	none
Aromatic hydrocarbon 1	Proprietary	N/Av	N/Av	None.
Aromatic hydrocarbon 2	Proprietary	3.191mg/L QSAR	N/Av	None.
Aromatic hydrocarbon 3	Proprietary	1.8mg/L/72hr (Green algae)	N/Av	None.
Aromatic hydrocarbon 4	Proprietary	0.4mg/L/72hr (Marine diatom)	N/Av	none
Aromatic hydrocarbon 5	Proprietary	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.
Aromatic hydrocarbon 6	Proprietary	1.29mg/L/72hr (Green algae)	0.73mg/L	None.
Aromatic hydrocarbon 7	Proprietary	5.7mg/L	N/Av	None.

Persistence and degradability

: No data is available on the product itself.

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>
Light aromatic naphtha	2.1 - 6(calculated)	10 - 2500
Glycol ether	0.81 at 25 °C	0.97
Aromatic hydrocarbon 4	3.7	30 - 430 species: fish
Aromatic hydrocarbon 1	3.78	31 - 275
Aromatic hydrocarbon 2	3.6 - 3.93	23 - 328
Aromatic hydrocarbon 5	3.12 - 3.2	50 - 58
Aromatic hydrocarbon 6	3.55 at 23 °C	224
Aromatic hydrocarbon 3	3.68	138 (estimated)
Aromatic hydrocarbon 7	3.76	133 - 259
Mineral spirits	3.16 - 7.06	No information available.
Heavy aromatic solvent	2.9 - 6.1	No information available.
Cetane improver	5.24	No information available.
Ester	2.9	30

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.

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.








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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Stoddard solvent)	3	III	 
IMDG Additional information	Consult the IMDG regulations for exceptions.				
ICAO/IATA	UN1993	Flammable liquid, n.o.s. (Stoddard solvent)	3	III	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				
49CFR/DOT	UN1993	FLAMMABLE LIQUID, N.O.S. (stoddard solvent)	3	III	
49CFR/DOT 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. Refer to 49 CFR Section 173.150.				
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (stoddard solvent)	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.				

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 meets the criteria for an environmentally hazardous material 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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<u>Ingredients</u>	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
Mineral spirits	Proprietary	Yes	None.	None.	No	N/Ap
Glycol ether	Proprietary	Yes	N/Ap	N/Av	No	N/Ap
Light aromatic naphtha	Proprietary	Yes	N/Ap	N/Ap	No	N/Ap
Ester	Proprietary	Yes	N/Ap	N/Av	No	N/Ap
Cetane improver	Proprietary	Yes	N/Ap	N/Av	No	N/Ap
Heavy aromatic solvent	Proprietary	Yes	N/Ap	N/Av	No	N/Ap
Aromatic hydrocarbon 1	Proprietary	Yes	N/Ap	N/Ap	Yes	1%
Aromatic hydrocarbon 2	Proprietary	Yes	N/Ap	N/Av	No	N/Ap
Aromatic hydrocarbon 3	Proprietary	Yes	N/Ap	N/Av	No	N/Ap
Aromatic hydrocarbon 4	Proprietary	Yes	100 lb/ 45.4 kg	N/Av	Yes	0.1%
Aromatic hydrocarbon 5	Proprietary	Yes	100 lb/ 45.4 kg	None.	Yes	1%
Aromatic hydrocarbon 6	Proprietary	Yes	5000 lb/ 2270 kg	N/Ap	Yes	1%
Aromatic hydrocarbon 7	Proprietary	Yes	N/Ap	N/Av	No	N/Ap

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

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:



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<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Mineral spirits	Proprietary	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Glycol ether	Proprietary	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Light aromatic naphtha	Proprietary	No	Not listed	No	No	No	No	No	No
Ester	Proprietary	No	Not listed	No	Yes	No	No	Yes	No
Cetane improver	Proprietary	No	Not listed	No	No	No	No	No	No
Heavy aromatic solvent	Proprietary	No	Not listed	No	No	No	No	No	No
Aromatic hydrocarbon 1	Proprietary	No	Not listed	No	Yes	Yes	Yes	Yes	No
Aromatic hydrocarbon 2	Proprietary	No	Not listed	Yes	Yes	No	No	No	No
Aromatic hydrocarbon 3	Proprietary	No	Not listed	No	Yes	No	Yes	Yes	No
Aromatic hydrocarbon 4	Proprietary	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 5	Proprietary	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 6	Proprietary	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes
Aromatic hydrocarbon 7	Proprietary	No	Not listed	No	No	No	No	No	No

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:



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<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>
Mineral spirits	Proprietary	Proprietary	Present	Present	Proprietary	Present	Present	Present
Glycol ether	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Light aromatic naphtha	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Ester	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Cetane improver	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Heavy aromatic solvent	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 1	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 2	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 3	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 4	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 5	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 6	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Aromatic hydrocarbon 7	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
- 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%
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- IARC: International Agency for Research on Cancer
- IMDG: International Maritime Dangerous Goods
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration



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LD: Lethal Dose
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
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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DISCLAIMER

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