



Fuel Power Plus Lubricity®

SDS Preparation Date (mm/dd/yyyy): 04/16/2021

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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

Name, address, and telephone number of
the manufacturer:

Refer to supplier

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 precautionary measures against static discharge.
Do not breathe mist or vapor.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
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>
stoddard solvent	Mineral spirits White spirit	8052-41-3	Proprietary



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2-Butoxy ethanol	Ethylene Glycol Monobutyl Ether EGBE	111-76-2	Proprietary
Light aromatic solvent naphtha	Aromatic solvent naphtha Solvent Naphtha (Petroleum) Light Aromatic	64742-95-6	Proprietary
2-Ethylhexanol	2-Ethylhexyl Alcohol	104-76-7	Proprietary
2-Ethylhexyl nitrate	Ethylhexyl nitrate Nitric acid, 2-ethylhexyl ester	27247-96-7	Proprietary
Heavy aromatic solvent naphtha	Aromatic solvent naphtha Heavy Aromatic Naphtha	64742-94-5	Proprietary
1,2,4-Trimethylbenzene	Pseudocumene	95-63-6	Proprietary
1,3,5-Trimethyl benzene	Trimethylbenzol Mesitylene	108-67-8	Proprietary
Propylbenzene	N-Propylbenze Isocumene 1-Propylbenzene	103-65-1	Proprietary
Naphthalene	Moth balls Moth flakes Tar camphor	91-20-3	Proprietary
Xylene (mixed isomers)	Dimethylbenzene Methyltoluene Xylol	1330-20-7	Proprietary
Cumene	Isopropyl benzene Cumol 2-Phenyl propane	98-82-8	Proprietary
1,2,3-Trimethylbenzene	Hemellitil Hemimellitene	526-73-8	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 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. 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>
stoddard solvent	100 ppm	N/Av	500 ppm (2900 mg/m ³)	N/Av
2-Butoxy ethanol	20 ppm	N/Av	50 ppm (skin)	N/Av
Light aromatic solvent naphtha	N/Av	N/Av	N/Av	N/Av
2-Ethylhexanol	N/Av	N/Av	N/Av	N/Av
2-Ethylhexyl nitrate	N/Av	N/Av	N/Av	N/Av
Heavy aromatic solvent naphtha	N/Av	N/Av	500 ppm (as petroleum distillates, naphtha)	N/Av
1,2,4-Trimethylbenzene	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
1,3,5-Trimethyl benzene	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Propylbenzene	N/Av	N/Av	N/Av	N/Av
Naphthalene	10 ppm (skin)	N/Av	10 ppm ; 50 mg/m ³	15ppm; 75mg/m ³
Xylene (mixed isomers)	100 ppm	150 ppm	100 ppm (435 mg/m ³)	N/Av
Cumeme	50 ppm	N/Av	50 ppm ; 245 mg/m ³ (Skin)	N/Av
1,2,3-Trimethylbenzene	25 ppm (trimethylbenzene isomers)	N/Av	ppm (trimethylbenzene) (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 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

Appearance : Clear to slightly hazy amber liquid.

Odour : 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 (solid, gas) : 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

Absolute pressure of container

: N/Av

Flame projection length : N/Av

Other physical/chemical comments

: None reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.



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

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



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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 (mixed isomers) Xylene may cause fetotoxic effects (e.g. reduced fetal weight, delayed ossification, behavioral effects) at doses which are not maternally toxic, based on animal data.

Sensitization to material : Not expected to be a skin 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>
stoddard solvent	> 5.5 mg/L (vapour)	> 5000 mg/kg	> 3000 mg/kg
2-Butoxy ethanol	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
2-Ethylhexanol	≥1.2 - <5.3 mg/L	2052mg/kg	No information available.
2-Ethylhexyl nitrate	> 14 mg/L	>10mg/L (>9600mg/kg)	>5 mL/kg (>4800mg/kg)
Heavy aromatic solvent naphtha	> 17.1 mg/L/4 hours	> 6000 mg/kg	> 3160 mg/kg
1,2,4-Trimethylbenzene	18 mg/L	5000 mg/kg	> 3160 mg/kg
1,3,5-Trimethyl benzene	24 mg/L	23 000 mg/kg	>3160mg/kg
Propylbenzene	159.25mg/L	6040 mg/kg	N/Av
Naphthalene	No information available.	490 mg/kg	>20,000 mg/kg
Xylene (mixed isomers)	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg
Cumeme	8000 ppm; 39 mg/L	2260 mg/kg	10 627 mg/kg
1,2,3-Trimethylbenzene	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
stoddard solvent	8052-41-3	2.1 - 4.2 mg/L (Bluegill sunfish)	N/Av	None.
2-Butoxy ethanol	111-76-2	1490 mg/L (Lepomis macrochirus)	>100mg/L (Zebra fish)	none
Light aromatic solvent naphtha	64742-95-6	9.22 mg/L (Rainbow trout)	N/Av	None.
2-Ethylhexanol	104-76-7	2 mg/L (Zebra fish)	N/Av	None.
2-Ethylhexyl nitrate	27247-96-7	2 mg/L (Zebra fish)	N/Av	None.
Heavy aromatic solvent naphtha	64742-94-5	3.6 mg/L (Rainbow trout)	N/Av	none
1,2,4-Trimethylbenzene	95-63-6	7.19 - 8.28 mg/L (Fathead minnow)	N/Av	None.
1,3,5-Trimethyl benzene	108-67-8	12.52 mg/L (Goldfish)	N/Av	None.
Propylbenzene	103-65-1	1.55mg/L (Rainbow trout)	N/Av	None.
Naphthalene	91-20-3	0.96 mg/L (pink salmon)	0.12mg/L (40 days) (pink salmon)	none
Xylene (mixed isomers)	1330-20-7	8.2 mg/L (Rainbow trout)	N/Av	None.
Cumeme	98-82-8	4.5mg/L (Rainbow trout)	0.38mg/L QSAR	None.
1,2,3-Trimethylbenzene	526-73-8	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
stoddard solvent	8052-41-3	0.42 - 2.3 mg/L (Daphnia magna) (Closed systems - low end; Open systems - high end)	0.1 - 0.37 mg/L	None.
2-Butoxy ethanol	111-76-2	835mg/L (Daphnia magna)	100mg/L (Daphnia magna)	none
Light aromatic solvent naphtha	64742-95-6	6.16 mg/L (Daphnia magna)	N/Av	None.
2-Ethylhexanol	104-76-7	>12.6mg/L (Daphnia magna)	N/Av	None.
2-Ethylhexyl nitrate	27247-96-7	> 12.6 mg/L [Daphnia magna (Water flea)]	N/Av	None.
Heavy aromatic solvent naphtha	64742-94-5	1.1 mg/L Water flea	N/Av	none
1,2,4-Trimethylbenzene	95-63-6	6.14 mg/L (Daphnia magna)	N/Av	None.
1,3,5-Trimethyl benzene	108-67-8	6 mg/L (Daphnia magna)	0.4mg/L	None.
Propylbenzene	103-65-1	2mg/L/24hr	N/Av	None.
Naphthalene	91-20-3	3.4 mg/L/ Water flea	0.6mg/L	none
Xylene (mixed isomers)	1330-20-7	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.
Cumene	98-82-8	2.14 mg/L (Daphnia magna)	0.35mg/L	None.
1,2,3-Trimethylbenzene	526-73-8	2.7mg/L Water flea	N/Av	None.



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Ingredients	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
stoddard solvent	8052-41-3	0.58 - 1.2 mg/L/72hr (Green algae) (Closed systems - low end; Open systems - high end)	0.16 mg/L/72hr	None.
2-Butoxy ethanol	111-76-2	911mg/L/72hr	286mg/L/72hr	none
Light aromatic solvent naphtha	64742-95-6	N/Av	N/Av	N/Av
2-Ethylhexanol	104-76-7	1.57mg/L/72hr (Green algae)	12.6mg/L/72hr	None.
2-Ethylhexyl nitrate	27247-96-7	1.57 mg/L/72hr (Green algae)	12.6mg/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
1,2,4-Trimethylbenzene	95-63-6	N/Av	N/Av	None.
1,3,5-Trimethyl benzene	108-67-8	3.191mg/L QSAR	N/Av	None.
Propylbenzene	103-65-1	1.8mg/L/72hr (Green algae)	N/Av	None.
Naphthalene	91-20-3	0.4mg/L/72hr (Marine diatom)	N/Av	none
Xylene (mixed isomers)	1330-20-7	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.
Cumeme	98-82-8	1.29mg/L/72hr (Green algae)	0.73mg/L	None.
1,2,3-Trimethylbenzene	526-73-8	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 solvent naphtha	2.1 - 6(calculated)	10 - 2500
2-Butoxy ethanol	0.81 at 25 °C	0.97
Naphthalene	3.7	30 - 430 species: fish
1,2,4-Trimethylbenzene	3.78	31 - 275
1,3,5-Trimethyl benzene	3.6 - 3.93	23 - 328
Xylene (mixed isomers)	3.12 - 3.2	50 - 58
Cumene	3.55 at 23 °C	224
Propylbenzene	3.68	138 (estimated)
1,2,3-Trimethylbenzene	3.76	133 - 259
stoddard solvent	3.16 - 7.06	No information available.
Heavy aromatic solvent naphtha	2.9 - 6.1	No information available.
2-Ethylhexyl nitrate	5.24	No information available.
2-Ethylhexanol	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.

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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<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
stoddard solvent	8052-41-3	Yes	None.	None.	No	N/Ap
2-Butoxy ethanol	111-76-2	Yes	N/Ap	N/Av	No	N/Ap
Light aromatic solvent naphtha	64742-95-6	Yes	N/Ap	N/Ap	No	N/Ap
2-Ethylhexanol	104-76-7	Yes	N/Ap	N/Av	No	N/Ap
2-Ethylhexyl nitrate	27247-96-7	Yes	N/Ap	N/Av	No	N/Ap
Heavy aromatic solvent naphtha	64742-94-5	Yes	N/Ap	N/Av	No	N/Ap
1,2,4-Trimethylbenzene	95-63-6	Yes	N/Ap	N/Ap	Yes	1%
1,3,5-Trimethyl benzene	108-67-8	Yes	N/Ap	N/Av	No	N/Ap
Propylbenzene	103-65-1	Yes	N/Ap	N/Av	No	N/Ap
Naphthalene	91-20-3	Yes	100 lb/ 45.4 kg	N/Av	Yes	0.1%
Xylene (mixed isomers)	1330-20-7	Yes	100 lb/ 45.4 kg	None.	Yes	1%
Cumeme	98-82-8	Yes	5000 lb/ 2270 kg	N/Ap	Yes	1%
1,2,3-Trimethylbenzene	526-73-8	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 . Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:



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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
stoddard solvent	8052-41-3	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
2-Butoxy ethanol	111-76-2	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Light aromatic solvent naphtha	64742-95-6	No	Not listed	No	No	No	No	No	No
2-Ethylhexanol	104-76-7	No	Not listed	No	Yes	No	No	Yes	No
2-Ethylhexyl nitrate	27247-96-7	No	Not listed	No	No	No	No	No	No
Heavy aromatic solvent naphtha	64742-94-5	No	Not listed	No	No	No	No	No	No
1,2,4-Trimethylbenzene	95-63-6	No	Not listed	No	Yes	Yes	Yes	Yes	No
1,3,5-Trimethyl benzene	108-67-8	No	Not listed	Yes	Yes	No	No	No	No
Propylbenzene	103-65-1	No	Not listed	No	Yes	No	Yes	Yes	No
Naphthalene	91-20-3	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes
Xylene (mixed isomers)	1330-20-7	No	Not listed	Yes	Yes	Yes	Yes	Yes	Yes
Cumeme	98-82-8	Yes	Carcinogen	Yes	Yes	Yes	Yes	Yes	Yes
1,2,3-Trimethylbenzene	526-73-8	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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Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
stoddard solvent	8052-41-3	232-489-3	Present	Present	(9)-1702	KE-32199	Present	HSR001498
2-Butoxy ethanol	111-76-2	203-905-0	Present	Present	(7)-97; (2)-407	KE-04134	Present	HSR001154
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.
2-Ethylhexanol	104-76-7	203-234-3	Present	Present	(2)-217	KE-13766	Present	HSR001386
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.
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.
1,2,4-Trimethylbenzene	95-63-6	202-436-9	Present	Present	(3)-7; (3)-3427	KE-34410	Present	HSR001382
1,3,5-Trimethyl benzene	108-67-8	203-604-4	Present	Present	(3)-7; (3)-3427	KE-34411	Present	HSR001229
Propylbenzene	103-65-1	203-132-9	Present	Present	(3)-21	KE-29781	Present	HSR005222
Naphthalene	91-20-3	202-049-5	Present	Present	(4)-311	KE-25545	Present	HSR001287
Xylene (mixed isomers)	1330-20-7	215-535-7	Present	Present	(3)-60; (3)-3	KE-35427	Present	HSR000983
Cumeme	98-82-8	202-704-5	Present	Present	(3)-32; (3)-22	KE-23957	Present	HSR001184
1,2,3-Trimethylbenzene	526-73-8	208-394-8	Present	Present	(3)-7; (3)-3427	KE-34409	Present	HSR004095

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
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- IMDG: International Maritime Dangerous Goods
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration



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LD: Lethal Dose
MSHA: Mine Safety and Health Administration
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
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TPQ: Threshold Planning Quantity
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

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

Preparation Date (mm/dd/yyyy)

: 04/16/2021

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

FPPF Chemical Company, Inc.
100 Dingens St.
Buffalo, NY, USA 14206
Telephone: 1-800-735-3773
Please direct all enquiries to FPPF Chemical Company

DISCLAIMER

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