FPPF Chemical Company, Inc.
100 Dingens St.
Buffalo, NY, USA, 14206
Telephone: (800) 735-3773

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SECTION 1. IDENTIFICATION

Product identifier used on the label : **Fuel Power Plus Cetane Booster®**

Other means of identification : 90188, 00122P, 00123, 00123T

Recommended use of the chemical and restrictions on use

: Fuel system 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 cloudy liquid. Amber liquid.

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 Liquid - Category 4
Acute Toxicity, dermal - Category 4
Acute toxicity, inhalation - Category 4
Skin Corrosion/Irritation - Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity, single exposure - Category 3 (narcotic effects)
Aspiration Toxicity - Category 1

Label elements

Hazard pictogram(s)

Signal Word

DANGER!

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Hazard statement(s)

Combustible liquid.
Harmful in contact with skin or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.

Precautionary statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.Use only outdoors or in a well-ventilated area. Avoid breathing fumes or vapors. Wear protective gloves/clothing and eye/face protection. Wash hands and face thoroughly after handling.In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.
IF exposed or concerned: Get medical advice/attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water. Call a poison center/doctor. If skin irritation occurs: get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor.
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.
Store in well-ventilated place. Keep container closed. Keep cool. 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: Burning produces obnoxious and toxic fumes. Ingestion can cause gastrointestinal irritation, nausea, 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

Chemical name	Common name and synonyms	CAS #	Concentration (% by weight)
Glycol ether	Proprietary	Proprietary	**Proprietary**
Ester	Proprietary	Proprietary	**Proprietary**
Petroleum Naphtha	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

Ingestion **measures** : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

Skin contact : IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: get medical advice/attention.

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Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

:

Harmful in contact with skin. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation. Harmful if inhaled. Symptoms may include coughing, choking and wheezing. May cause respiratory irritation. Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.Prolonged overexposure may cause slight kidney effects, such as increased organ weight. Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Chronic overexposure to Glycol ether may cause liver, kidney and blood damage, based on animal data.
Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically. Show this safety data sheet to the doctor in attendance. Aspiration hazard. This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Dry chemical, foam, carbon dioxide and water fog.

Unsuitable extinguishing media

: Do not use water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

: Combustible liquid and vapor. Keep away from flames and hot surfaces. Vapours are heavier than air and collect in confined and low-lying areas. Material will float on water and can be re-ignited at the water's surface. Vapors may travel considerable distance to a source of ignition and flash back. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. This product will accumulate static charge by flow, splashing or agitation. 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 Liquid - Category 4

Hazardous combustion products

: None known or reported by the manufacturer. In the event of fire the following can be released: Carbon oxides;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. Use water spray to keep containers cool. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Evacuate personnel to safe areas. Keep all other personnel upwind and away from the spill/release. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. Bond and ground transfer containers and equipment to avoid static accumulation. 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. 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): None. See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Keep away from flames and hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Avoid breathing mist or spray. Take precautionary measures against static discharges. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not ingest. Do not get in eyes, on skin, or on clothing. Use proper bonding and grounding techniques when transferring liquid. Avoid contact with incompatible materials.

Conditions for safe storage : Store in well-ventilated place. Keep cool. Keep tightly closed. Store locked up. Store away from incompatibles and out of direct sunlight. Take measures to prevent the build up of electrostatic charge. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. Direct sunlight or heat may accelerate the release of peroxides. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials : Strong oxidizing agents, Perchloric acid, Bases

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Glycol ether	20 ppm	N/Av	50 ppm (240 mg/m³) (skin)	N/Av
Ester	N/Av	N/Av	N/Av	N/Av
Petroleum Naphtha	200 mg/m³ (as total hydrocarbon vapour)	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 non-sparking 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. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers.

Skin protection : Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection : Wear eye/face protection. Chemical splash goggles are recommended.A full face shield may also be necessary.

Other protective equipment : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations : Avoid breathing mist or spray. Do not eat, drink, smoke or use cosmetics while working with this product. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. 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.
Odor threshold : N/Av
pH : N/Av

Melting Point/Freezing point : N/Av

Initial boiling point and boiling range

Flash point : N/Av
Flashpoint (Method) : >61°C
: Tag closed cup
Evaporation rate (BuAe = 1) : Slower than n-butyl acetate

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Flammability : Flammable
Lower flammable limit (% by vol.) : N/Av
Upper flammable limit (% by vol.) : N/Av
Oxidizing properties : None.
Explosive properties : Not explosive
Vapour pressure : N/Av
Vapour density : N/Av
Relative density / Specific gravity : N/Av
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) : N/Av
Volatile organic Compounds (VOC's) : N/Av
Particle characteristics : N/Ap
Other physical/chemical comments : None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Hazardous polymerization does not occur. May form explosive peroxides during prolonged exposure to air and heat. May be sensitive to static discharge.
Conditions to avoid : Keep away from flames and hot surfaces. Keep away from direct sunlight. Do not use in areas without adequate ventilation. Take precautionary measures against static discharge. Avoid contact with incompatible materials.
Incompatible materials : Strong oxidizing agents Perchloric acid Bases Air Reacts with air to form peroxides. See Section 7 (Handling and Storage) for further details.
Hazardous decomposition products : May form explosive peroxides. Exposure to light may accelerate peroxide formation. 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 : YES

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Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Harmful if inhaled.Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Inhalation of vapors or mists may cause irritation to the nose, throat and upper respiratory tract. Symptoms may include coughing, choking and wheezing.

Sign and symptoms ingestion

: Aspiration hazard. Aspiration into lungs may be fatal. Ingestion may cause symptoms similar to inhalation. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea.

Sign and symptoms skin : May be harmful in contact with skin. May be absorbed through the skin, producing symptoms similar to ingestion or inhalation.
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 Glycol ether may cause liver, kidney and blood damage. Prolonged overexposure may cause slight kidney effects, such as increased organ weight.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : Not expected to have carcinogenic effects.

Reproductive effects & Teratogenicity

: This product is not expected to cause reproductive or developmental effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects : Specific target organ toxicity, single exposure May cause drowsiness or dizziness. Not classified as a specific target organ toxicity - repeated exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials : Not available.

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. The calculated ATE values for this mixture are:
ATE oral = 2120 mg/kg
ATE inhalation (vapours) = 8.7 mg/L
ATE dermal = 1600mg/kg

Chemical name	LC_{50}(4hr) inh, rat	LD_{50} (Oral, rat)	LD_{50} (Rabbit, dermal)
Glycol ether	450 ppm (2.175 mg/L) (vapour)	530 mg/kg	400 - 500 mg/kg
Ester	>4.6mg/L	960mg/kg	N/Av
Petroleum Naphtha	>6.03 mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg

Other important toxicological hazards

: None known or reported by the manufacturer.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Not expected to be harmful to aquatic organisms. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Glycol ether	Proprietary	1490 mg/L (Bluegill sunfish)	> 100 mg/L (Zebra fish)	None.
Ester	Proprietary	2mg/L (Zebra fish)	N/Av	None.
Petroleum Naphtha	Proprietary	45 mg/L (Fathead minnow)	N/Av	None.

Ingredients	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Glycol ether	Proprietary	835 mg/L (Daphnia magna)	100 mg/L	None.
Ester	Proprietary	>12.6mg/L	N/Av	None.
Petroleum Naphtha	Proprietary	N/Av	N/Av	N/Av

Ingredients	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Glycol ether	Proprietary	911 mg/L/72hr (Green algae)	286 mg/L/72hr	None.
Ester	Proprietary	<0.8mg/L	1.42mg/L	None.
Petroleum Naphtha	Proprietary	N/Av	N/Av	N/Av

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.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Glycol ether	0.8	0.97
Ester	5.24	1332
Petroleum Naphtha	5.1-8.8	N/Av

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

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: The ecological characteristics of this product have not been fully investigated. 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 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.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	NA1993	Combustible liquid, n.o.s. (Ethylene glycol monobutyl ether)	Combustible.	III	
49CFR/DOT Additional information	Not regulated for road or rail shipment if packaged in non-bulk containers (450 L / 119 Gallons or less each). The 'label' appearing here is the placard to be used for bulk shipments.				
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

Special precautions for user : Keep away from heat and open flames. - 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.

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SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Glycol ether	Proprietary	Yes	None.	None.	No	N/Ap
Ester	Proprietary	Yes	None.	N/Ap	No	N/Ap
Petroleum Naphtha	Proprietary	Yes	N/Ap	N/Av	No	N/Ap

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

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
Glycol ether	Proprietary	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Ester	Proprietary	No	N/Ap	No	No	NS	No	Yes	NS
Petroleum Naphtha	Proprietary	No	N/Ap	No	No	No	No	No	No

California Proposition 65:
This product can expose you to chemicals, which are known to the State of California to cause cancer.
Contains:Ethylbenzene; Naphthalene
This product can expose you to chemicals, which are known to the State of California to cause cancer, and, which are known to the State of California to cause birth defects or other reproductive harm. Contains: Toluene

Canadian Information:

All ingredients are present on the DSL.

International Information:

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

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Glycol ether	Proprietary	Proprietary	Present	Present	Present	Present	Present	Present
Ester	Proprietary		N/Av	Listed	N/Av	N/Av	Listed	Listed
Petroleum Naphtha	Proprietary	Proprietary	Present	Present	(Present	Present	Present	No information available.

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SECTION 16. OTHER INFORMATION

Legend : CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
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
LD: Lethal Dose
N/Ap: Not Applicable
N/Av: Not Available
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average

References Material Safety Data Sheet from manufacturer.
Preparation Date 08/092021
Revision Date: 04/20/2024

DISCLAIMER

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This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of FPPF Chemical Company, Inc.

END OF DOCUMENT