

FPS Premium Hi-Mileage + Cetane

SDS Number: 60428

Revision Date: 10/1/2018

Page 1 of 5

1 PRODUCT AND COMPANY IDENTIFICATION

Vendor

Fuel Performance Solutions
P.O. Box 903
Chesterton, IN 46304

Emergency: 1-800-424-9300 (Chemtrec)
Phone: 1-888-577-3935

Product Name: FPS Premium Hi-Mileage + Cetane
Revision Date: 10/1/2018
SDS Number: 60428
CAS Number: Blend
Product Code: 60428
Synonyms: Diesel Fuel Additive

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 3
Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 4 Dermal
Health, Acute toxicity, 4 Inhalation
Health, Specific target organ toxicity - Single exposure, 3
Health, Carcinogenicity, 2
Health, Aspiration hazard, 1
Environmental, Hazards to the aquatic environment - Chronic, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H226 - Flammable liquid and vapor
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H304 - May be fatal if swallowed and enters airways
H411 - Toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233 - Keep container tightly closed.
P241 - Use explosion-proof electrical/ventilating/light/equipment.
P243 - Take precautionary measures against static discharge.

FPS Premium Hi-Mileage + Cetane

SDS Number: 60428

Revision Date: 10/1/2018

Page 2 of 5

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 P273 - Avoid release to the environment.
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P302+352 - IF ON SKIN: Wash with soap and water.
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P308+313 - IF exposed or concerned: Get medical advice/attention.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

When heated above 100 C (212 F) may undergo a self-accelerating, exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature.

VAPOR MAY CAUSE FLASH FIRE

3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
27247-96-7	60-70%	2-Ethylhexylnitrate
64742-94-5	<15%	Solvent naphtha, petroleum, heavy arom.
95-63-6	<3%	1,2,4-Trimethylbenzene
91-20-3	<3%	Naphthalene

4 FIRST AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Wash with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if needed.
Eye Contact: Flush with water for several minutes. If effects occur, consult a physician.
Ingestion: Rinse mouth with water and drink 2-4 cups of water. Get immediate medical attention.

5 FIRE FIGHTING MEASURES

Flash Point: 63 C (145 F)
 Use dry powder, foam, or carbon dioxide fire extinguishers.
 Water may be ineffective unless used by experienced fire fighters.

When heated above 100 C (212 F) may undergo a self-accelerating, exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature. Spray storage vessels with water to maintain temperature below 100 C (212 F).

VAPOR MAY CAUSE FLASH FIRE. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Decomposition products may include the following material: Carbon dioxide, Carbon monoxide, Nitrogen oxides

FPS Premium Hi-Mileage + Cetane

SDS Number: 60428

Revision Date: 10/1/2018

Page 3 of 5

6 ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition - Heat, sparks, flame, and electricity
 Contain spilled material.
 Collect in suitable and properly labeled containers.
 Pick up excess with inert absorbant material
 Keep away from drains and ground water.

7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing. Keep away from sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Handle with care and avoid spillage on the floor (slippage). Use explosion proof electrical (ventilation, lighting, and material handling) equipment. Ground and bond containers when transferring material

When heated above 100 C (212 F) may undergo a self-accelerating, exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature.

Product transfer:
 Do not heat the product. Prior to starting transfer pump, ensure all valves in the product discharge line are open and that the line is unobstructed. Immediately after starting the transfer pump, verify that the product is flowing. If the product is not flowing, shut the pump off immediately. A pneumatic driven diaphragm pump or pumps of other designs equipped with high temperature (75 C) shut off devices are recommended when pumps are provided at fixed locations.

Storage Requirements: Keep away from sources of ignition.
 Store in a tightly closed container

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

Personal Protective Equipment: Use of safety glasses and gloves is recommended.

Exposure Guidelines: **Solvent Naphtha, Petroleum, Light Aromatic.**
 OSHA TWA: 500 ppm
1,2,4-Trimethylbenzene
 ACGIH TWA: 25 ppm
Naphthalene
 OSHA TWA: 10 ppm, 50 mg/m³
2-EthylhexylNitrate
 OSHA TWA: 1 ppm

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber	Odor:	Hydrocarbon like
Physical State:	Liquid	Solubility:	Nil in water
Spec Grav./Density:	0.95 at 60 F (Water = 1)	Freezing/Melting Pt.:	Not available
Viscosity:	Not available	Flash Point:	63 C (145 F)
Boiling Point:	Not available	Vapor Density:	Not available
Flammability:	Not available	Bulk Density:	7.93 lbs/gal
Partition Coefficient:	Not available		
Vapor Pressure:	Not available		
pH:	Not available		
Evap. Rate:	Not available		
Decomp Temp:	Not available		

FPS Premium Hi-Mileage + Cetane

SDS Number: 60428

Revision Date: 10/1/2018

Page 4 of 5

10

STABILITY AND REACTIVITY

- Chemical Stability:** Product is stable under normal conditions.
When heated above 100 Deg C, may undergo an exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature.
- Conditions to Avoid:** High temperatures above 50 C (122 F) and open flame.
- Materials to Avoid:** Avoid strong oxidizing agents. May burn or react violently to flourine/oxygen mixtures.
- Hazardous Decomposition:** Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.
- Hazardous Polymerization:** Will not occur.

11

TOXICOLOGICAL INFORMATION

Acute Toxicity

1,2,4-Trimethylbenzene

LD50 Dermal Rabbit 3160 mg/kg

LD50 Oral Rat 5000 mg/kg

LD50 Oral Rat 3400 to 6000 mg/kg

LC50 Inhalation, Vapor, Rat 18000 mg/m³ 4 hours

Naphthalene

LD50 Dermal Rat >2500 mg/kg

LD50 Oral Rat 2600 mg/kg

LC50 Inhalation, Gas, Rat >100 ppm 8 hours

Light aromatic solvent naphtha (petroleum)

LD50 Dermal Rabbit >3160 mg/kg

LD50 Oral Rat 3492 mg/kg

LC50 Inhalation, Vapor, Rat 6193 mg/m³ 4 hours

2-Ethylhexylnitrate

LD50 Dermal Rabbit >5000 mg/kg

LD50 Oral Rat >10000 mg/kg

Sensitization None known.

Germ Cell Mutagenicity None known.

Carcinogenicity Naphthalene, IARC 2B

Reproductive toxicity None known.

Specific target organ systemic toxicity (repeated exposure) None known.

12

ECOLOGICAL INFORMATION

Avoid exposing to the environment, no specific aquatic data available.

FPS Premium Hi-Mileage + Cetane

SDS Number: 60428

Revision Date: 10/1/2018

Page 5 of 5

13	DISPOSAL CONSIDERATIONS
-----------	--------------------------------

Dispose of waste material in accordance with all local, state/provincial, and national requirements.
Do not flush to surface water or drains.

14	TRANSPORT INFORMATION
-----------	------------------------------

NA1993, Combustible liquid, -, PGIII, (Contains 2-Ethylhexylnitrate, Petroleum Naphtha), (Marine pollutant)

Not regulated for US DOT transportation in containers less than 119 gallons.

IMDG & IATA: UN3082, Environmentally Hazardous Substance, liquid, n.o.s. (Contains 2-Ethylhexylnitrate, Petroleum Naphtha), 9, III

15	REGULATORY INFORMATION
-----------	-------------------------------

Component (CAS#) [%] - CODES

Nitric acid, 2-ethylhexyl ester (27247-96-7) [60-70%] TSCA

Solvent naphtha, petroleum, heavy arom. (64742-94-5) [<15%] TSCA

1,2,4-Trimethylbenzene (95-63-6) [<3%] MASS, NJHS, PA, SARA313, TSCA, TXAIR

RQ(100LBS), Naphthalene (91-20-3) [<3%] CERCLA, CSWHS, EPCRAWPC, GADSL, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

Regulatory CODE Descriptions

RQ = Reportable Quantity
TSCA = Toxic Substances Control Act
MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TXAIR = TX Air Contaminants with Health Effects Screening Level
CERCLA = Superfund clean up substance
CSWHS = Clean water Act Hazardous substances
EPCRAWPC = EPCRA Water Priority Chemicals
GADSL = Global Automotive Declarable Substance List (GADSL)
HAP = Hazardous Air Pollutants
OSHA WAC = OSHA workplace Air Contaminants
PRIPOL = Clean water Act Priority Pollutants
TOXICPOL = Clean water Act Toxic Pollutants
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TXHWL = TX Hazardous Waste List

16	OTHER INFORMATION
-----------	--------------------------

The information contained in this Safety Data Sheet relates only to the specific material designated. Fuel Performance Solutions assumes no legal responsibility for use or reliance upon this data. This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Fuel Performance Solutions.