

PURE EDGE

SDS Number: 60436

Revision Date: 5/9/2016

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Advanced Fuel Solutions
85 Flagship Dr - Unit K
North Andover, MA 01845

Phone: 1-978-258-8360

Product Name: AFS Optimum Performance Technology
Revision Date: 5/9/2016
SDS Number: 60436
CAS Number: Blend
Product Code: 60436
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, Specific target organ toxicity - Single exposure, 3
Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 4 Dermal
Health, Acute toxicity, 4 Inhalation
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
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
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:

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P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 P273 - Avoid release to the environment.
 P302+352 - IF ON SKIN: Wash with soap and water.
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P308+313 - IF exposed or concerned: Get medical advice/attention.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

2,6-DI-T-Butylphenol	< 5.0	129-39-2
Light aromatic solvent naptha	20.0 - 40.0	64742-95-6
1,2,4-Trimethylbenzene	< 15.0	95-63-6
N,N'-DI-SEC-Butyl-P-Phenylenediamine	< 5.0	101-96-2
2-Ethylhexanol	5.0 - 15.0	104-76-7
Naphthalene	< 2.0	91-20-3
Xylene	< 5.0	1330-20-7
Amine reaction products	< 1.0	84605-20-9
Phenol, 2,2'-(1-methyl-1,2-ethanediyl)	< 1.0	94-91-7
Ethylbenzene	< 0.3	100-41-4
1,3,5-Trimethylbenzene	< 0.5	108-67-8
Cumene	< 1.0	98-82-8

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: If swallowed, do NOT induce vomiting.
 Have the victim rinse mouth with water, and then drink 2 - 4 cupfuls of water.
 Get immediate medical attention.

NOTES TO PHYSICIAN:
 Activated charcoal mixture may be administered.

5 FIRE FIGHTING MEASURES

Flash Point: 55.6 C (132.1 F)
Flash Point Method: TCC

Use dry powder, foam, or carbon dioxide fire extinguishers.
 Water may be ineffective unless used by experienced fire fighters.

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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 container
 Handle with care and avoid spillage on the floor (slippage).
 Ground and bond containers when transferring material

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 are recommended.

Exposure Guidelines:

ETHYLENE GLYCOL MONOBUTYL ETHER
 OSHA PEL: 25 ppm, 120 mg/m³
 OSHA TWA: 25 ppm
 ACGIH TWA: 25 ppm

SOLVENT NAPHTHA, PETROLEUM, LIGHT AROM.
 OSHA TWA: 500 ppm

1,2,4-TRIMETHYLBENZENE
 ACGIH TWA: 25 ppm

NAPHTHALENE
 OSHA PEL: 10 ppm, 50 mg/m³
 OSHA TWA: 10 ppm, 50 mg/m³
 ACGIH TWA: 10 ppm, 52 mg/m³
 OSHA STEL: 15 ppm, 75 mg/m³
 ACGIH STEL: 15 ppm, 79 mg/m³

XYLENE
 OSHA TWA: 100 ppm, 435 mg/m³
 ACGIH TWA: 100 ppm, 434 mg/m³
 OSHA STEL: 150 ppm, 655 mg/m³
 ACGIH STEL: 150 ppm, 651 mg/m³

ETHYLBENZENE
 OSHA TWA: 100 ppm
 OSHA STEL: 125 ppm
 ACGIH STEL: 125 ppm

1,3,5-TRIMETHYLBENZENE
 ACGIH TWA: 25 ppm

CUMENE
 OSHA PEL: 50 ppm
 OSHA TWA: 50 ppm, 245 mg/m³
 ACGIH TWA: 50 ppm, 246 mg/m³

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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber
Physical State:	Liquid
Solubility:	Nil in water
Viscosity:	6 cSt at 40 degrees C
Bulk Density:	7.75 lbs/gal

10 STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	High temperatures above 50 C (122 F), sparks, and open flame.
Materials to Avoid:	Avoid strong oxidizing agents. May burn or react violently to flourine/oxygen mixtures.

11 TOXICOLOGICAL INFORMATION

Repeated skin contact with this product may cause dermatitis.
No component is listed as a mutagen or teratogen.

EYE EFFECTS:

Solvent Petroleum Naphtha slightly irritating in rabbits.

SKIN EFFECTS:

Solvent Petroleum Naphtha no deaths reported at 4 ml/kg in rats.. Slightly irritating in rabbits at 4 hours.

ACUTE ORAL EFFECTS:

Naphthalene LD50 2600 mg/kg in rats.
Solvent Petroleum Naphtha LD50 10 ml/kg in rats.
Ethylene Glycol Monobutyl Ether LD50 1.4 g/kg in guinea pigs.

ACUTE INHALATION EFFECTS:

Solvent Petroleum Naphtha no deaths at 710 ppm in rats at 4 hours.
Ethylene Glycol Monobutyl Ether LC50 >633 ppm in guinea pigs.

12 ECOLOGICAL INFORMATION

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

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.

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14	TRANSPORT INFORMATION
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NA1993, Combustible liquid, -, PGIII, (Contains Petroleum Naphtha, 1,2,4-Trimethylbenzene)

This material is not regulated for US DOT transportation in quantities less than 119 Gallons.

If shipping overseas, or via air, the proper shipping name is: Flammable liquid, n.o.s., (Contains Petroleum Naphtha, 1,2,4-Trimethylbenzene), 3, UN1993, PGIII.

15	REGULATORY INFORMATION
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This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substances Control Act (TSCA).

16	OTHER INFORMATION
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The information contained in this Safety Data Sheet relates only to the specific material designated. Advanced Fuel 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 Advanced Fuel Solutions.