



453 Winter Diesel Fuel Conditioner + Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Rules & Regulations
Revision: 02/02/2018 Issued: 01/01/1993 Supersedes: 03/01/2006

SECTION 1.

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT FORM: Liquid Substance
TRADE NAME: **Technol 453 Winter Diesel Conditioner + Cetane**
CHEMICAL NAME: Proprietary mixture of petroleum distillates
COMPANY: Technol Fuel Conditioners, Inc.
145 Wyckoff Road
Eatontown, NJ 07724
Phone: 1.800.645.4033
EMERGENCY PHONE: Chemtrec: 1.800.424.9300 - within USA and Canada
Chemtrec: 1.703.527.3887 - outside USA and Canada

Classification of the Substance or Mixture

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

Physical, Flammable Liquids, 4
Health, Specific target organ toxicity— Single exposure, 3
Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 4 Dermal
Health, Acute toxicity, 4 Inhalation
Health, Skin corrosion/irritation, 3
Health, Carcinogenicity, 2
Environmental, Hazards to the aquatic environment—Chronic, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS HAZARD PICTOGRAMS:



GHS Hazardous Statements:

H227-Combustible liquid
H316-Causes mild skin irritation
H335- May cause respiratory irritation
H336-May cause drowsiness or dizziness
H302-Harmful if swallowed
H312-Harmful in contact with skin
H332-Harmful if inhaled
H351-Suspected of causing cancer
H411-Toxic to aquatic life with long lasting effects



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GHS Precautionary Statements:

P210-Keep away from heat/sparks/open flames/hot surfaces. NO SMOKING
P243-Take precautionary measures against static discharge
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 temperatures.

VAPOR MAY CAUSE FLASH FIRE

SECTION 3. COMPOSITION AND INGREDIENTS INFORMATION

INGREDIENTS:

Cas #	%	Chemical Name
27247-96-7	20-40%	2-ethylhexylnitrate
64742-94-6	20-30%	Solvent naphtha, petroleum, light arom.
95-63-6	<15%	1,2,4- Trimethylbenzene
111-76-2	<10%	2- Butoxyethanol
64742-94-5	<5%	Solvent naphtha, petroleum, heavy arom
1330-20-7	<2%	Xylene

SECTION 4. FIRST AID MEASURES

INHALATION: Overexposure can cause dizziness, lack of coordination, and breathing complications, unlikely to occur under normal usage conditions. Handlers should always wear a self-contained breathing apparatus in the positive mode with a full face-piece due to the likelihood of fumes, smoke, and hazardous component decomposition. Remove to fresh air and deploy artificial respiration if not breathing. Get medical attention.

SKIN CONTACT: Can cause irritation of exposed skin due to defatting of skin tissue. Handlers should always wear rubber gloves. Wash exposed skin vigorously with general soap and water. Get medical attention if skin irritation persists.

EYE CONTACT: Can cause irritation of exposed eye tissue. Handlers should always wear splash-proof goggles. Rinse eyes with cool flowing water for at least 15 minutes and get immediate medical attention.

INGESTION: Can cause irritation of the gastrointestinal tract. DO NOT INDUCE VOMITING. Deploy artificial respiration if not breathing. Get immediate medical attention.

Note to Physician: Activated charcoal may be administered



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SECTION 5. FIREFIGHTING MEASURES

Flash point >66°C (>151° F)

Special Hazards and Procedures: This product poses no unusual fire fighting problems. It will burn if involved in a fire. Oxides of sulfur (SO₂) will be given off while burning. Combustion may produce oxides of carbon and oxides of calcium. Water may be used to cool fire-exposed containers and structures but is not a suitable extinguishing media.

Protective Equipment: As in any fire, firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus (SCBA) and full turnout gear.

Extinguishing Media: Dry chemical, CO₂ and foam are suitable. Water jets or any water-based fluid are not suitable. Closed containers may be cooled with water. Treat large fires as an oil fire. Oil will float on water and can cause fire to spread. Heat from fire can generate flammable vapor.

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 temperatures.

VAPOR MAY CAUSE FLASH FIRE

SECTION 6. ACCIDENTAL RELEASE PRECAUTIONS

PERSONAL: Wearing suitable protective equipment, eliminate sources of ignition and open nearby windows to ventilate the problem area.

ENVIRONMENTAL: Product has very low solubility in water. Prevent from entering sewer system, surface water or soil.

FOR SPILL CLEAN-UP: Shut off leak and dike up large spills. Absorb with an inert material such as sand, soil or vermiculite. Sweep up absorbent and dispose in accordance with regulatory requirements.

SECTION 7. PRODUCT HANDLING & STORAGE

HANDLING: This product is best stored in its original container. Steel or HDPE containers are recommended replacements and electrically bond and ground all containers and equipment. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, aerosol and mists. Use with adequate ventilation and wash thoroughly after handling. Never use pressure to empty drums.

STORAGE: Full or partially-filled containers should always be kept upright and away from strong oxidizing agents. This product will pump down to 10°F [-12.2°C]. Nonetheless, it is recommended that full or partially-filled containers be stored in a cool dry place between 45° - 85°F [7.2° - 29.4°C]. Store in original container if possible, and keep all chemical containers away from direct sunlight and tightly closed when not in use.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: None normally required. Use additional ventilation if needed to control vapor concentrations particularly if a mist is generated or fumes from hot material are present.

RESPIRATORY: None required if area adequately ventilated. Use appropriate respiratory protection if used in confined areas. If used in an application where a mist may be generated, observe a TWA/PEL of 5 mg/m³ (OSHA, ACGIH) for a mineral oil mist. Use a respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit.

SKIN PROTECTION: Use chemical resistant gloves and chemical resistant suit and boots.

EYE PROTECTION: Wear chemical safety goggles with side shields or a full-plate face shield. Contact lenses should not be worn.



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SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Amber	Odor:	Hydrocarbon like
Boiling Point:	not available	Density at 25°C (gm/cm ³):	0.91
Vapor Pressure:	Not available	Vapor density (Air = 1):	Not Available
Solubility in Water:	Negligible	Solubility in Organic Solvents:	Soluble
pH:	Not Available	Flash point, COC (ASTM D-93):	151°F (>66°C)
Pounds per Gallon	7.58	Evaporation Rate :	not available
Freeze Point:	Not available	Volatiles By Volume:	55% @ 68°F (20°C)

SECTION 10. STABILITY AND REACTIVITY

This product is unstable at temperatures greater than 100°C (212°C)

Hazardous Decomposition Products: Oxides of carbon (carbon monoxide and carbon dioxide), and oxides of hydrogen (contaminated and hazardous water) are all formed from burning.

Incompatible materials: Strong oxidizers such as hydrogen peroxide, oxidizing chlorine, and bromine compounds (e.g. chlorine bleach) and chromic acid should be avoided.

Conditions to avoid: Extreme heat above 50 °C (122 °F) and sources of fire or ignition.

SECTION 11. TOXICOLOGICAL INFORMATION

Repeated skin contact with this product may cause dermatitis or an oil acne.

No Component is listed as a mutagen or teratogen

EYE EFFECTS:

Solvent Petroleum Naphtha, slightly irritating to rabbits.

SKIN EFFECTS:

Solvent Petroleum Naphtha LD50 10ml/kg in rats. Slightly irritating in rabbits at 4 hours

2-Ethylhexylnitrite LD50 >5000 mg/kg in rabbits

2-Butoxyethanol LD50 >2000 mg/kg in rats

ACUTE ORAL EFFECTS:

Solvent Petroleum Naphtha LD50 10ml/kg in rats.

Naphthalene LD50 2600 mg/kg in rats.

2-Ethylhexylnitrite LD50 >10000 mg/kg in rabbits

2-Butoxyethanol LD50 >1746 mg/kg in rats.

ACUTE INHALATION EFFECTS:

Solvent Petroleum Naphtha no deaths at 710 ppm in rats at 4 hours

SECTION 12. ECOLOGICAL INFORMATION

Avoid exposing to the environment, no specific aquatic data available



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SECTION 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

SECTION 14. TRANSPORTATION INFORMATION

NA 1993, Combustible Liquid, -, PGIII, (Contains 2-Ethylhexylnitrate, Petroleum Naphtha)

Marine Pollutant

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

IMDG & IATA: UN 3082, Environmentally Hazardous Substance, Liquid, n.o.s., (2-Ethylhexylnitrate, Petroleum Naphtha), 9, III, marine pollutant.

SECTION 15. REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Nitric acid, 2-ethylhexyl ester (27247-96-7) [20-40%] TSCA

Solvent naphtha, petroleum, light arom. (64742-94-6) [20-30%] TSCA

1,2,4-Trimethylbenzene (95-63-6) [<15%] MASS, NJHS, PA, SARA313, TSCA, TXAIR

2-Butoxyethanol (111-76-2) [<10%] HAP, MASS.OSHAWAC, PA, TSCA, TXAIR

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

RQ(100LBS), Xylene (1330-20-7) [<2%] CERCLA, CSWHS, EPCRAWPC, GADSL, HAP, MASS. NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

Regulatory Code Descriptions

RQ = Reportable quantity

CERCLA = Superfund clean up substance

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substance List

NJHS = NJ Right - to - know List of Hazardous Substances

OSHAWAC = OSHA Workplace Air Contaminants

PA = Pennsylvania Right - to - Know List of Hazardous Substances

SARA313 = SARA 313 Title III Toxic chemicals

TSCA = Toxic Substance Control Act

TXAIR = Texas Air contaminants with Health Effects Screening Level

CSWHS = Clean Water Act Hazardous Substance

EPCRAWPC = EPCRA Water priority Chemicals

GADSL = Global Automotive Declarable Substance List (GADSL)

PRIPOL = Clean Water Act Priority Pollutants.

TOXICPOL = Clean Water Act Toxic Pollutants

TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)

TXHWL = TX Hazardous Waste List



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OTHER INFORMATION

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