





# Diesel Fuel Conditioner

- Combustion improvers increase fuel performance providing for a more complete fuel burn
- Increases lubricity in low and ultra low sulfur fuel
- Increases available horsepower and torque
- Cleans the entire fuel system from fuel tank to exhaust valve
- Stabilizes the fuel preventing sludge
- Emulsifies water controlling bacteria and algae
- Inhibits tank and fuel system corrosion
- Increases fuel economy
- Reduces deposits and carbon build-up
- Lowers exhaust emissions and soot output
- Reduces fuel-related equipment downtime, maintenance costs, and service calls

*This diesel fuel conditioner complies with the federal low sulfur content requirements for use in diesel motor vehicles and non-road engines.*

Available sizes,	Usage Directions
5 Gallon Pails,  55 Gallon Drums,  330 Gallon bulk totes.	Apply 1-8 oz bottle to 125 gallons of fuel. Apply 1 gallon to 2,000 gallons of fuel.  Apply <b>Technol 400</b> before refueling and the onset of the cold temperatures to provide proper mixing, distribution and cold flow protection.



Technol Fuel Conditioners, Inc.

REV 11/06

Tel: 800 645-4033

www.technol.com

Fax: 732 542-0109



# Technol<sup>®</sup> 400

## Diesel Fuel Conditioner

### Technical Data Sheet

#### Normal usage

- ◆ Apply the recommended amount of **Technol 400** directly to the fuel tank. (see application chart)
- ◆ If the amount of fuel needed is not known, apply soon after the delivered amount is known. **Technol 400** can be applied after a fuel delivery but mixing will not be as fast. It is best applied before refueling to insure faster mixing and distribution.

#### To stabilize fuel during storage.

- ◆ Double dose the entire fuel tank capacity then top off the tank.
- ◆ After the application of **Technol 400** and the refueling is complete, run the engine/s for at least 15 minutes to insure that **Technol 400** conditioned fuel has been run through the entire fuel system.

#### **Usage ratios**

Apply at the ratio of  
8 ozs to every 125 gallons of fuel, or  
One gallon to every 2000 gallons of fuel.

#### **Available in;**

5 Gallon Pails,  
55 Gallon Drums, and  
330 Gallon Bulk Totes

#### **PHYSICAL & CHEMICAL PROPERTIES**

Material is :Liquid  
Flash point :120° F Typical  
Appearance :Thin Amber Color  
Specific gravity@25°C (77°F) :0.86

#### **How fuel is improved**

##### Combats Sludge

Sludge detergents and dispersants break-up sludge small enough that most pass harmlessly through your fuel filter and injectors. Any larger particles while being broken down, that enter the fuel pick up are caught by the fuel filter, which is normal engine protection. Your diesel fuel is stabilized, which keeps sludge from fuel degradation from forming. This stops "the sludge cycle" and sludge build up while maintaining a clean and efficient fuel system.

##### Increased Power

Cetane is increased by up to 3 numbers allowing combustion to start earlier and the engine to run smoother. Once combustion has started, our combustion enhancers provide for a more complete fuel burn. Both combined with a clean and efficient fuel system results in more available horsepower and torque from the same amount of fuel, leading to an overall increased fuel economy.

##### Combats algae and water buildup

If you have biological contamination you have water in your tank. **Technol 400** allows water and diesel fuel to mix, this emulsion then leaves the tank as the engine calls for fuel. This is how water is removed from your tank. It is then burned during the combustion process and sent out as steam in the exhaust. When the water is gone, the environment required for biological life is also gone.



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## Diesel Fuel Conditioner

### Material Safety Data Sheet I

#### Section 1. General Information.

NAME: Technol<sup>®</sup> 400 Diesel Fuel Conditioner.

CAS# : Mixture.

CHEM NAME: Blend of petroleum distillates.

FORMULA : Proprietary.

MOLECULAR WT : N/A.

EMERGENCY Chemtrec numbers:

USA : (800) 424-9300

INTERNATIONAL : 001-703-527-3887

Address : Technol Fuel Conditioners, Inc.

12 Christopher Way

Suite 102

Eatontown NJ. 07724

Contact : Technol Fuel Conditioners, Inc.

Telephone : (800) 645-4033

ISSUE DATE: January, 1993

REVISED DATE: March, 2006

#### Section 2. Personal Protective Equipment.

Rubber gloves and splashproof goggles are recommended as a standard operation procedure.

#### Section 3. Hazards Information.

SKIN : Irritation of exposed skin due to defatting of skin.

EYES : May cause burns.

INGESTION : Irritation of gastrointestinal tract.

BIOLOGICAL : N/A.

PERMISSIBLE CONCENTRATION : Not Known.

FLAMMABLE LIMITS IN AIR (% by Vol.) : Not Established.

UNUSUAL FIRE & EXPLOSIVE HAZARDS : None Known.

INHALATION: Overexposure will cause dizziness and lack of coordination. Unlikely to occur under normal usage conditions.

UNUSUAL CHRONIC TOXICITY: Prolonged or repeated exposure to Xylene and N-Butanol causes liver, kidney, lung and CNS damage

#### Section 4. Precautions & Procedures.

FIRE EXTINGUISHING TO AVOID: Water.

FIRE EXTINGUISHING AGENT RECOMMENDED: Dry Chemical, CO<sub>2</sub>, Chemical Foam.

SPECIAL FIRE FIGHTING PRECAUTIONS: Firefighters should wear self-contained breathing apparatus in the positive mode with full facepiece due to likelihood of fumes, smoke and hazardous decomposition products.

SPECIAL INSTRUCTIONS: *Handle as combustible petroleum product.*

STORAGE: Keep container tightly closed during transport and storage. Store in cool dry place.

NORMAL HANDLING: Wear rubber gloves and splashproof goggles, particularly if handling large quantities.

VENTILATION: Standard room ventilation should be sufficient in large area; local exhaust recommended for confined areas and at vapor source.

SPILL OR LEAK: Ventilate area. Remove sources of ignition. Contain any spills with dikes or absorbants to prevent migration and entry into sewers or streams. Take up small spills with dry chemical absorbant. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbant. May require excavation of contaminated soil.



# Technol<sup>®</sup> 400

## Diesel Fuel Conditioner

### Material Safety Data Sheet II

#### Section 5. Physical Characteristics.

pH : N/A.  
MATERIAL IS : Liquid.  
FLASH POINT : 120°F Open Cup.  
BOILING POINT : N/A.  
VAPOR DENSITY : N/A.  
APPEARANCE & ODOR: Amber Liquid.

SPECIFIC GRAVITY : 0.86.  
SOLUBILITY IN WATER : Negligible.  
VOLATILES BY VOLUME (@20°C): 20%.  
VAPOR PRESSURE (mm Hg@20°C): 20.  
EVAPORATION RATE:  
(Butyl Acetate=1): < 1.

#### Section 6. Reactivity Data.

STABILITY : Product is stable.  
INCOMPATIBILITY : Strong oxidizing agents.  
CONDITIONS TO AVOID : N/A.  
HAZARDOUS DECOMPOSITION : Can form oxides of Carbon and Nitrogen.  
HAZARDOUS POLYMERIZATION : Will not occur

#### Section 7. First Aid Measures.

EYE CONTACT : Rinse in cool, flowing water for 15 minutes; get medical attention.  
SKIN CONTACT : Wash with soap and water, get medical attention if skin irritation persists  
INHALATION: Remove to fresh air, get medical attention. Give artificial respiration if not breathing.  
INGESTION: Get medical attention immediately - **DO NOT INDUCE VOMITING.** Give artificial respiration if breathing stops.

#### Section 8. Environmental Concerns.

DEGRADABILITY/AQUATIC TOXICITY : Not Known  
RCRA STATUS OF UNUSED MATERIAL : Dispose in permitted hazardous waste site.  
EPA HAZARDOUS SUBSTANCE: Yes - Reportable Quantity = 100 lbs for Ignitable substance.  
WASTE DISPOSAL METHODS: Incinerate at a registered site; disposer must comply with Federal, State and Local disposal or discharge statutes.

#### Section 9. References

GENERAL: Merck Index, Tenth Edition; Supplied Material Safety Data Sheets.  
PERMISSIBLE CONCENTRATION REFERENCES: ACGIH, NIOSH, OSHA; See **Registry of Toxic Effects of Chemical Substances** for specific test results and the latest regulatory standards.



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### Material Safety Data Sheet III

#### Section 10. Hazardous Ingredients.

This product is a mixture of petroleum derivatives.

This Material is NOT known to contain any Carcinogen listed under OSHA Communication Standard 29 CFR 1910 1200.

Name	: Kerosene	Glycol Ethers
Cas#	: 808-20-6	111-76-2
Appx % By Weight	: 60-80%	5-20%
Hazard	: N/A	SARA 313

Contains no "Extremely Hazardous Substances (SARA 311/312)".

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#### Section 11. Transportation Information.

EMERGENCY NUMBER: (800) 424-9300 (Chemtrec). INTERNATIONAL: 001-703-527-3887

DESCRIPTION : Proprietary mixture of petroleum derivatives.

DOT HAZARD CLASS : 3. Packing group: III.

UN/NA Number:

**NA 1993**; Combustible liquid N.O.S., Contains Aromatic Naphtha and Glycol Ethers. Not regulated when shipped in a container less than 120 gallons, by ground within the US.

**UN 1993**; Flammable liquid N.O.S., Contains Aromatic Naphtha and Glycol Ethers. When shipped in a container over 120 gallons, by sea or air, or overseas.

STORE in a cool, dry place between 45°F and 85°F. Keep out of direct sunlight and away from heat sources.

Keep Container upright; do not roll; do not store in plastic - or rubber - lined containers.

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#### Section 12. Additional Information: Disclaimer.

The information contained in the Material Safety Data Sheets have been derived from analysis of published data, publicly available, and supplied component Material Safety Data Sheets. This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. While this information is considered accurate, Technol Fuel Conditioners, Inc. makes no warranty, expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or information and recommendations regarding this data or the results to be obtained from the use thereof. Technol Fuel Conditioners, Inc. makes no representation as to completeness or accuracy. In no event will Technol Fuel Conditioners, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

Distribution of the Material Safety Data is only one component of your workplace hazard communication program. It is the employer's responsibility to ensure that all employees are properly trained to recognize, evaluate and protect themselves from the risks associated with the storage, use and disposal of this and any other chemical material.



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## Application Chart.

Use at the ratio of 1 gallon to every 2,000 gallons of fuel.

	You Need →	=	Ounces	+	Quarts	+	Gallons	+	Pails
<b>G A L L O N S</b>	20	=	1.5 Ounces						
	40	=	2.5 Ounces						
	60	=	4 Ounces						
	80	=	5 Ounces						
	100	=	6.5 Ounces						
	125	=	8 Ounces						
	150	=	10 Ounces						
	175	=	11.5 Ounces						
	200	=	13 Ounces						
	225	=	14.5 Ounces						
<b>O F F U E L</b>	250	=	16 Ounces						
	275	=	17.5 Ounces						
	300	=	19 Ounces						
	325	=	21 Ounces						
	350	=	22.5 Ounces						
<b>T O D O D A Y</b>	375	=	24 Ounces						
	400	=	25.5 Ounces						
	425	=	28 Ounces						
	450	=	29 Ounces						
	475	=	30.5 Ounces						
<b>C O N D I T I O N S</b>	500	=	→		1 Quart				
	600	=	7 Ounces	+	1 Quart				
	700	=	13 Ounces	+	1 Quart				
	800	=	20 Ounces	+	1 Quart				
	900	=	26 Ounces	+	1 Quart				
<b>I T E M S</b>	1,000	=	→		2 Quarts				
	2,000	=	→		→	1 Gallon			
	3,000	=	→		2 Quarts	+	1 Gallon		
	4,000	=	→		→	2 Gallons			
	5,000	=	→		2 Quarts	+	2 Gallons		
	6,000	=	→		→	3 Gallons			
	7,000	=	→		2 Quarts	+	3 Gallons		
	8,000	=	→		→	4 Gallons			
	9,000	=	→		2 Quarts	+	4 Gallons		
	10,000	=	→		→	→	1 Pail		