



# **Technol<sup>®</sup> 246**

## **Super Sludge Dispersant**

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### **Product Description Sheet**

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Technol 246 has been specifically formulated for sludge contaminated fuel tanks. The entire fuel system from tank to injectors, along with the heat transfer tubes are cleaned. This allows the fuel system to operate at its optimum designed efficiency with the maximized BTU output and heat transfer possible. Beyond cleaning the entire fuel system, Technol 246 emulsifies and removes water, inhibits fuel system corrosion, and further improves #2, 4, and 6 Fuel Oil, Kerosene combustibility for a more complete fuel burn. BTU output is increased, you get more heat/power from the same amount of fuel resulting in improved overall fuel quality and economy.

**Sludge Dispersants** breakup and dissolve sludge, these small particles are then suspended in the fuel and most pass harmlessly through filters and nozzles without plugging.

**Non-metallic modifiers** improve the ignition process for an earlier, longer, and more complete fuel burn, this is how the fuel produces increased heat/power output as fuel efficiency is increased. These modifiers will also lower Nox, Carbon Monoxide, Hydrocarbon and particulate emissions. Black soot from poor combustion is eliminated.

**Corrosion Inhibitors** protect all metal fuel system components. Once the sludge is no longer a problem, the continued use of **Technol C-10** will keep further corrosion in check, and the use of **Technol STR-2+<sup>®</sup>**

will maintain a clean, healthy, and powerful fuel and fuel system, keeping fuel related maintenance costs and downtime to a minimum.

**Water miscible solvents and emulsifiers** allows free water and oil to mix, then as the fuel is called upon for use this “water in oil emulsion” is removed from the tank burnt and sent up the stack as steam. Any large amounts of water that can not be emulsified is rejected to the tank bottom for easy removal or pumped out for proper disposal.

#### **Benefits**

- Eliminates sludge buildup
- Cleans tanks, lines, filters, nozzles, combustion chambers and heat transfer tubes
- Inhibits corrosion
- Emulsifies and controls water
- Improves fuel combustion
- Retards biological growth in fuel
- Is completely miscible in fuel

#### **Vehicle Warning**

This produce is NOT registered with the EPA  
And NOT recommended for on-road use.

Technol 246 is readily available in;

- 8oz Bottles packed 12 per case
- Tip & Measure Gallons packed 4 per case
- 5-gallon Closed-Head Steel Pail
- 54-gallon Closed-Head Steel Drums
- 275- & 330-gallon Totes for Bulk Applications



## **Technol 246 removes sludge from problem fuel oil tanks**

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### **Bulleted Highlights**

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- Dissolves and Eliminates sludge build up
- Cleans tanks, lines, filters, nozzles, and heat exchangers
- Improves heat transfer, less lost heat
- Inhibits corrosion of the fuel system
- Retards microbial contamination
- Completely miscible in fuel
- Emulsifies and controls water content
- Improves distillate & residual fuel combustion for increased BTUs

*Used By:*

*Home Owners ▲ Oil Dealers ▲ Fuel Supply Companies*



# **Technol<sup>®</sup> 246**

## **Super Sludge Dispersant**

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### **Technical Data Sheet**

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#### **How Sludge problems develop.**

- Over time sludge from un-stabilized fuel will build-up to the point that it is drawn into the fuel pick-up, caught by your filters and clogs them.
- Stopping fuel flow.
- Filter clogging after refueling is a clear warning sign of sludge within your tank. If left unchecked, this will lead to a greater sludge contamination problem. Your filters were clogged due to sludge being disturbed and mixed with the new fuel during the last fuel delivery.
- Sludge can enter your tank during refueling and delivered into your tank. Although uncommon, if this happens it is a delivered and instant sludge problem.

#### **Technol 246:**

##### **BENEFITS**

- Breaks-down and disperses sludge.
- Cleans tanks, lines, filters, pumps, and heat exchangers.
- Improves heat transfer by eliminating carbon buildup and soot formation.
- Improves combustion, producing more heat from the same amount of fuel.
- Increases fuel and fuel system efficiency and fuel economy.
- Eliminates black smoke due to incomplete fuel burn.
- Emulsifies water, combats water-related maintenance problems and algae.
- Retards biological growth.

#### **Usage Ratios:**

No.2 Oil - 8ozs to up to 275 gallons,  
No.2 Oil - 1 gallon to 4,000 gallons,  
No.4 Oil - 1 gallon to 2,000 gallons,  
No.6 Oil - 1 gallon to 1,000 gallons.

#### **Steps recommended to prevent sludge problems.**

##### What to do when you have a Sludge Problem

- The problem of filters being clogged by fuel sediment sludge will not go away by itself and the problem will only worsen without help.
- Apply **Technol 246 Sludge Dispersant** directly to your tank. Aggressive sludge dispersants will break-down and dissolve sludge particles small enough that most pass harmlessly through filters and injectors. Once broken-down these small particles are suspended within the fuel to keep them from building up on the bottom of the tank again. The suspended sludge and fuel leave the tank as fuel is called for to burn. Any large particles of suspended sludge that enter the pickup will be caught by your fuel filters, which is normal.
- Fuel filters should be changed as required to protect equipment. As sludge is reduced and eliminated, filter replacement maintenance intervals will return to normal.
- To maintain a clean fuel system, improve, and stabilize your fuel all year, apply **Technol STR-2+ Fuel Oil Conditioner**.

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

Odor: Camphor

Appearance: Blue Color

Flash point: 140° F Typical

Specific gravity @25°C (77°F): 0.86

*This product is NOT recommended for use in vehicles, boats, or on- off-road ground vehicles.*



# 246 Super Sludge Dispersant Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Rules & Regulations

Revision: 07/30/2015 Issued: 04/01/1994 Supersedes: 03/01/2006

## SECTION 1.

### PRODUCT AND COMPANY IDENTIFICATION

PRODUCT FORM: Liquid Substance  
 TRADE NAME: **Technol 246 Super Sludge Dispersant**  
 CHEMICAL NAME: Proprietary mixture of petroleum distillates  
 COMPANY: Technol Fuel Conditioners, Inc.  
 145 Wyckoff Road  
 Eatontown, NJ 07724  
 Phone: 1.800.645.4033

EPA REGISTRATION: Not required for off-road fuel consumption  
 EMERGENCY PHONE: Chemtrec: 1.800.424.9300 - within USA and Canada  
 Chemtrec: 1.703.527.3887 - outside USA and Canada

## SECTION 2.

### HAZARDS IDENTIFICATION

GHS SIGNAL WORD: **WARNING!**

GHS HAZARD PICTOGRAMS:



GHS CLASSIFICATIONS:

PHYSICAL: H227: Combustible liquid  
 HEALTH: H302: Harmful if swallowed  
 H312: Harmful in contact with skin  
 H320: Can cause eye irritation  
 H336: May cause drowsiness or dizziness  
 H373: May cause damage to organs through prolonged or repeated exposure  
 ENVIRONMENTAL: H402: May be harmful to aquatic life

GHS PRECAUTIONARY STATEMENTS:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233: Keep container tightly closed.  
 P261: Avoid breathing dust/fumes/gas/mist/vapors/spray [As modified by IV ATP].  
 P262: Do not get in eyes, on skin, or on clothing.  
 P273: Avoid release into the environment.  
 P301+P331: IF SWALLOWED, Do NOT induce vomiting.  
 P410+P411: Protect from sunlight. Store at temperatures between 45°F [7.2°C] and 85°F [29.4°C].

## SECTION 3.

### COMPOSITION AND INGREDIENTS INFORMATION

Chemical Name	Hazard Date	% By Weight	CAS Number	SARA 311	SARA 312	SARA 313
Kerosene	Not Available	60% - 80%	8008-20-6	No	No	No
Glycol Ether	April, 1992	10% - 25%	111-76-2	No	No	Yes



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### 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 and possible fatal kidney liver damage. **DO NOT INDUCE VOMITING.** Deploy artificial respiration if not breathing. Get immediate medical attention.

### SECTION 5.

#### FIREFIGHTING MEASURES

Special Hazards and Procedures:

This product poses no unusual fire fighting problems. It will burn if involved in a fire. Oxides of sulfur (SO<sub>2</sub>) 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 goggled breathing apparatus, protective gloves and clothing.

Extinguishing Media:

Dry chemical, CO<sub>2</sub> 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.

### 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.



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### 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/m <sup>3</sup> (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 neoprene-type gloves and apron.
EYE PROTECTION:	Wear chemical safety goggles or a full-plate face shield. Contact lenses should not be worn.

### SECTION 9.

#### PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Blue-Green Liquid	Odor:	Camphor Characteristic
Boiling Point:	< 340°F	Density at 25°C (gm/cm <sup>3</sup> ):	0.86 Typical
Vapor Pressure:	< 5 @ 20°C (mm Hg)	Vapor Density (Air = 1):	< 1
Solubility in Water:	Negligible	Solubility in Organic Solvents:	Soluble
pH:	Not Applicable	Flash point, COC (ASTM D-93):	135°F
Pounds per Gallon:	7.2	Evaporation Rate:	< 1 (Butyl Acetate =1)
Freeze Point:	10°F (-12.2°C)	Volatiles By Volume:	55% @ 68°F (20°C)

### SECTION 10.

#### STABILITY AND REACTIVITY

This product is stable and not subject to hazardous polymerization.

Hazardous Decomposition Products: Oxides of carbon (carbon monoxide and carbon dioxide), oxides of hydrogen (contaminated and hazardous water), and oxides of Nitrogen can occur when exposed to heat exceeding 350°F (176.7°C).

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 and sources of fire or ignition.

### SECTION 11.

#### TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:	Eye contact, skin contact, inhalation of vapors, and ingestion.
ACUTE TOXICITY:	The handling procedures and safety precautions in this SDS should be followed to minimize employee exposure.
CHRONIC EFFECTS:	Can cause eye, skin and gastrointestinal irritation. Irritation of tissue, defatting of skin, gastrointestinal irritation, Kidney and Liver damage.
SYMPTOMS:	Irritation of exposed tissue and organs, blurriness of vision, dizziness, fainting, and lack of physical coordination.
LD50:	Not Established.
NTP/IARC/OSHA:	This product and none of its components are listed as a carcinogens, mutagens, or teratogens.

### SECTION 12.

#### ECOLOGICAL INFORMATION

No specific aquatic data is available. This product should be kept away from all bodies of water, and prevented from entering sewer streams. It may be necessary to extract soil where large spills have occurred. No specific Bioaccumulation data is available. No specific Terrain Migration data is available.



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## SECTION 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** This product should be incinerated as a waste oil, at a certified and registered waste disposal site, in compliance with all federal, state and local regulations and requirements.

**RCRA STATUS OF UNUSED PRODUCT:** Dispose of this product in permitted hazardous wastes sites. Keep this product away lakes, streams, rivers, ponds, sewer systems, and any other body of water.

## SECTION 14. TRANSPORTATION INFORMATION

### US DOT Classification:



**NA 1993, Combustible Liquid, NOS** (placard required on ground carriers): not regulated if shipped or transported in containers less than 450 liters (119 Gallons US).

Proper Shipping Name: Proprietary mixture of petroleum derivatives  
Shipping Class: 65 (regardless of package or container size)  
Packing Group: III (regardless of package or container size)  
NMFC Rating: 155250-02



**UN 1993, Flammable Liquid, NOS:** If shipped in containers of 450 liters or more (120 Gallons US or more), by air or by sea.

Proper Shipping Name: Petroleum Distillates, NOS  
Shipping Class: 65 (regardless of package or container size)  
Packing Group: III (regardless of package or container size)

### IMDG Classification:

This product is not known to be a marine pollutant according to the International Marine Dangerous Goods Codes, however it can cause harm to aquatic life.

### ICAO Classification:

Proper Shipping Name: Petroleum Distillates, NOS  
Class: 3  
UN/NA ID #: NA 1993  
Packing Group: III

### IBC Classification:

Guidance on transporting this product in bulk by ocean freight can be obtained from Annex II of Marpol 73/78 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

### All Transportation Methods:

Keep packages and containers upright and tightly sealed at all time during transportation. Do not expose packages and containers to direct sunlight, extreme heat, or any source of ignition. All product should be transported in their original packaging and containers. Rubber, plastic or other lined containers should not be used.

## SECTION 15. REGULATORY INFORMATION

There are no other national and/or regional statutes or information on this product, including OSHA, Department of Transportation, Environmental Protection Agency, Consumer Product Safety Commission, and Right-To-Know Act not previously addressed in this document.

Chemical Name \_\_\_\_\_ CAS # \_\_\_\_\_ NJ TS Number \_\_\_\_\_

None



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### SECTION 16.

### OTHER INFORMATION

This product has not been tested in long term, chronic exposure, therefore, the handling procedures and safety precautions in the SDS should be followed to minimize employee exposure.

Label Information for the United States: CAUTION: May cause skin and eye irritation. Do not swallow. Avoid eye and skin contact. Wash thoroughly after handling. Avoid contact with clothing. Wash clothing before reuse. Keep out of reach of children. Keep containers tightly closed when not in use. Avoid breathing mists or sprays of this product or its solutions.

#### EMPLOYER RESPONSIBILITY

Employers must ensure that these Material Safety Data Sheets are readily accessible and available to all their employees responsible for the storage, handling, and manipulation of this product. This can be done in many ways, such as organizing all chemicals SDS in freely available binders kept in areas where the chemicals are stored, or on computers the handling employees have access to without the inconvenience of leaving the work or storage area. We strongly recommend the binder method which keeps them available in the event of a power outage or other emergency inhibiting computer use. Employers may want to consider designating two persons (primary and backup) responsible for obtaining and maintaining SDS records. If the employer does not have a particular SDS for a chemical commodity, the employer or responsible designate should contact the chemical manufacturer to obtain one prior to product use.

#### REFERENCES

OSHA, 29 CR 1910.1200(g) and Appendix D.

United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 3rd Revised Edition, United Nations, 2009. These references and other information related to the revised Hazard Communication Standard can be found on OSHA's Hazard Communication Safety and Health Topics web site at: <http://www.osha.gov/dsg/hazcom/index.html>.

#### DISCLAIMER

This brief provides a general overview of the Material Safety Data Sheet requirements as mandated by the Hazard Communication Standard 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200. It does not alter or determine compliance responsibilities in the standard or the Occupational Safety and Health Act of 1970. Since interpretations and enforcement policy may change over time, the reader should consult current OSHA interpretations, decisions by the Occupational Safety and Health Review Commission, and the courts for additional guidance on OSHA compliance requirement. Please note that states with OSHA-approved state plans may have additional requirements for chemical safety data sheets, outside of those outlined above. For more information on those standards, please visit: <http://www.osha.gov/dcsp/osp/statestandards.html>.

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# 246 Super Sludge Dispersant Application Chart - 2 Oil

This chart specifies the number of containers or ounces needed for the amount of fuel to be conditioned. Container volumes are maximized in accordance with a 40"x40" skid. To determine ounces needed when container factors are less than 1, multiply the factor times the Container Ozs.

Container Ozs:	8oz. = 8	Quart = 32	Gal. = 128	Pail = 640	Drum = 6,912	Tote = 35,200				
Sizes / Skid Max:	YES 720	→	YES 160	YES 20	YES 216	YES 275				
Application:	Initial Maintain	Initial Maintain	Initial Maintain	Initial Maintain	Initial Maintain	Initial Maintain				
Ratio:	1: 2000 4,000	2,000 4,000	2,000 4,000	2,000 4,000	2,000 4,000	2,000 4,000				
	<u>Bottles Needed</u>		<u>Bottles Needed</u>		<u>Pails Needed</u>		<u>Drums Needed</u>		<u>Totes Needed</u>	
G	50	1 -	←	←	←	←	←	←	←	←
A	100	2 0.8	←	←	←	←	←	←	←	←
L	200	3 1.6	←	←	←	←	←	←	←	←
L	500	8 4	←	←	←	←	←	←	←	←
O	1,000	16 8	1	←	←	←	←	←	←	←
N	2,000	32 16	1	0.5	0.2	←	←	←	←	←
S	3,000	48 24	2	0.8	0.3	←	←	←	←	←
O	4,000	64 32	2	1	0.4	0.2	←	←	←	←
F	5,000	80 40	3	1	1	0.3	←	←	←	←
F	7,500	120 60	4	2	1	0.4	←	←	←	←
F	8,000	128 64	4	2	1	0.4	←	←	←	←
F	9,000	144 72	5	2	1	0.5	←	←	←	←
U	10,000	160 80	5	3	1	1	←	←	←	←
E	12,000	192 96	6	3	1	1	←	←	←	←
L	14,000	224 112	7	4	1	1	←	←	←	←
L	15,000	240 120	8	4	2	1	←	←	←	←
T	20,000	320 160	10	5	2	1	←	←	←	←
O	25,000	400 200	13	6	3	1	0.2	←	←	←
O	45,000	720 360	23	11	5	2	0.4	0.2	←	←
B	75,000	→ 600	38	19	8	4	0.7	0.3	←	←
E	80,000	→ 640	40	20	8	4	0.7	0.4	←	←
E	85,000	→ 680	43	21	9	4	0.8	0.4	←	←
C	89,990	→ 720	45	22	9	4	0.8	0.4	←	←
O	98,000	→ →	49	25	10	5	0.9	0.5	←	←
O	100,000	→ →	50	25	10	5	0.9	0.5	←	←
N	110,000	→ →	55	28	11	6	1	0.5	0.2	←
D	115,000	→ →	58	29	12	6	1	0.5	0.2	←
I	119,900	→ →	60	30	12	6	1	0.6	0.2	←
T	135,000	→ →	68	34	14	7	1	0.6	0.2	←
I	159,500	→ →	80	40	16	8	1	0.7	0.3	←
O	200,000	→ →	100	50	20	10	2	0.9	0.4	←
N	240,000	→ →	120	60	→	12	2	1	0.4	0.2
E	320,000	→ →	160	80	→	16	3	1	0.6	0.3
D	520,000	→ →	→	130	→	→	5	2	0.9	0.5
	1,000,000	→ →	→	→	→	→	9	5	1.8	0.9

*Packaging & Shipping : 12 8oz bottles/case (where available) 60 cases per skid; 12 quart bottles/case (where available) 40 cases per skid, 4 gallons/case (where available) 40 cases per skid, 20 pails/skid, 4 drums/skid, one 275-gallon HDPE tote bin per skid. All containers and skids are non-returnable. Please recycle in accordance with local statutes. When seeing the arrow (→) we recommend the next larger size container.*



# 246 Super Sludge Dispersant Application Chart - 4 Oil

This chart specifies the number of containers or ounces needed for the amount of fuel to be conditioned. Container volumes are maximized in accordance with a 40"x40" skid. To determine ounces needed when container factors are less than 1, multiply the factor times the Container Ozs.

Container Ozs:	8oz. = 8	Quart = 32	Gal. = 128	Pail = 640	Drum = 6,912	Tote = 35,200				
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Application:	Initial Maintain	Initial Maintain	Initial Maintain	Initial Maintain	Initial Maintain	Initial Maintain				
Ratio:	1: 1000 2,000	1,000 2,000	1,000 2,000	1,000 2,000	1,000 2,000	1,000 2,000				
	<u>Bottles Needed</u>		<u>Bottles Needed</u>		<u>Pails Needed</u>		<u>Drums Needed</u>		<u>Totes Needed</u>	
	50	1 -	← ←	← ←	← ←	← ←	← ←	← ←	← ←	
G	100	2 0.8	← ←	← ←	← ←	← ←	← ←	← ←	← ←	
A	200	3 1.6	← ←	← ←	← ←	← ←	← ←	← ←	← ←	
L	500	8 4	0.5 ←	← ←	← ←	← ←	← ←	← ←	← ←	
L	1,000	16 8	1 0.5	0.2 ←	← ←	← ←	← ←	← ←	← ←	
O	2,000	32 16	2 1.0	0.4 0.2	← ←	← ←	← ←	← ←	← ←	
N	3,000	48 24	3 1.5	0.6 0.3	← ←	← ←	← ←	← ←	← ←	
S	4,000	64 32	4 2	0.8 0.4	← ←	← ←	← ←	← ←	← ←	
	5,000	80 40	5 3	1 0.5	← ←	← ←	← ←	← ←	← ←	
O	7,500	120 60	8 4	2 0.8	← ←	← ←	← ←	← ←	← ←	
F	8,000	128 64	8 4	2 0.8	← ←	← ←	← ←	← ←	← ←	
	9,000	144 72	9 5	2 0.9	← ←	← ←	← ←	← ←	← ←	
F	10,000	160 80	10 5	2 1	← ←	← ←	← ←	← ←	← ←	
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	20,000	320 160	20 10	4 2	0.4 ←	← ←	← ←	← ←	← ←	
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O	45,000	720 360	45 23	9 5	0.8 0.4	← ←	← ←	← ←	← ←	
	75,000	→ 600	75 38	15 8	1.4 0.7	0.3 ←	← ←	← ←	← ←	
B	80,000	→ 640	80 40	16 8	1.5 0.7	0.3 ←	← ←	← ←	← ←	
E	85,000	→ 680	85 43	17 9	1.6 0.8	0.3 ←	← ←	← ←	← ←	
	89,990	→ 720	90 45	18 9	1.7 0.8	0.3 ←	← ←	← ←	← ←	
C	98,000	→ →	98 49	20 10	1.8 0.9	0.4 ←	← ←	← ←	← ←	
O	100,000	→ →	100 50	20 10	1.9 0.9	0.4 ←	← ←	← ←	← ←	
N	110,000	→ →	110 55	→ 11	2 1.0	0.4 0.2	← ←	← ←	← ←	
D	115,000	→ →	115 58	→ 12	2 1.1	0.4 0.2	← ←	← ←	← ←	
I	119,900	→ →	120 60	→ 12	2 1.1	0.4 0.2	← ←	← ←	← ←	
T	135,000	→ →	135 68	→ 14	3 1.3	0.5 0.2	← ←	← ←	← ←	
I	159,500	→ →	160 80	→ 16	3 1.5	0.6 0.3	← ←	← ←	← ←	
O	200,000	→ →	→ 100	→ 20	4 1.9	0.7 0.4	← ←	← ←	← ←	
N	240,000	→ →	→ 120	→ →	4 2	0.9 0.4	← ←	← ←	← ←	
E	320,000	→ →	→ 160	→ →	6 3	1.2 0.6	← ←	← ←	← ←	
D	520,000	→ →	→ →	→ →	10 5	1.9 0.9	← ←	← ←	← ←	
	1,000,000	→ →	→ →	→ →	19 9	3.6 1.8	← ←	← ←	← ←	

*Packaging & Shipping : 12 8oz bottles/case (where available) 60 cases per skid; 12 quart bottles/case (where available) 40 cases per skid, 4 gallons/case (where available) 40 cases per skid, 20 pails/skid, 4 drums/skid, one 275-gallon HDPE tote bin per skid. All containers and skids are non-returnable. Please recycle in accordance with local statutes. When seeing the arrow (→) we recommend the next larger size container.*



This chart specifies the number of containers or ounces needed for the amount of fuel to be conditioned. Container volumes are maximized in accordance with a 40"x40" skid. To determine ounces needed when container factors are less than 1, multiply the factor times the Container Ozs.

Container Ozs:	8oz. = 8	Quart = 32	Gal. = 128	Pail = 640	Drum = 6,912	Tote = 35,200				
Sizes / Skid Max:	YES 720	→	YES 160	YES 20	YES 216	YES 275				
Application:	Initial Maintain	Initial Maintain	Initial Maintain	Initial Maintain	Initial Maintain	Initial Maintain				
Ratio:	1: 500 1,000	500 1,000	500 1,000	500 1,000	500 1,000	500 1,000				
	<u>Bottles Needed</u>		<u>Bottles Needed</u>		<u>Pails Needed</u>		<u>Drums Needed</u>		<u>Totes Needed</u>	
	50	1 -	← ←	← ←	← ←	← ←	← ←	← ←		
G	100	2 0.8	← ←	← ←	← ←	← ←	← ←	← ←		
A	200	3 1.6	← ←	← ←	← ←	← ←	← ←	← ←		
L	500	8 4	1.0 0.500	0.2 ←	← ←	← ←	← ←	← ←		
L	1,000	16 8	2 1.0	0.4 0.2	← ←	← ←	← ←	← ←		
O	2,000	32 16	4 2.0	0.8 0.4	← ←	← ←	← ←	← ←		
N	3,000	48 24	6 3.0	1.2 0.6	← ←	← ←	← ←	← ←		
S	4,000	64 32	8 4	1.6 0.8	← ←	← ←	← ←	← ←		
	5,000	80 40	10 5	2 1.0	← ←	← ←	← ←	← ←		
O	7,500	120 60	15 8	3 1.5	0.3 ←	← ←	← ←	← ←		
F	8,000	128 64	16 8	3 1.6	0.3 ←	← ←	← ←	← ←		
	9,000	144 72	18 9	4 1.8	0.3 ←	← ←	← ←	← ←		
F	10,000	160 80	20 10	4 2	0.4 ←	← ←	← ←	← ←		
U	12,000	192 96	24 12	5 2	0.4 0.222	← ←	← ←	← ←		
E	14,000	224 112	28 14	6 3	0.5 0.259	← ←	← ←	← ←		
L	15,000	240 120	30 15	6 3	0.6 0.278	← ←	← ←	← ←		
	20,000	320 160	40 20	8 4	0.7 0.370	← ←	← ←	← ←		
T	25,000	400 200	50 25	10 5	0.9 0.5	← ←	← ←	← ←		
O	45,000	720 360	90 45	18 9	1.7 0.8	0.3 ←	← ←	← ←		
	75,000	→ 600	150 75	→ 15	2.8 1.4	0.5 0.3	← ←	← ←		
B	80,000	→ 640	→ 80	→ 16	3.0 1.5	0.6 0.3	← ←	← ←		
E	85,000	→ 680	→ 85	→ 17	3.1 1.6	0.6 0.3	← ←	← ←		
	89,990	→ 720	→ 90	→ 18	3.3 1.7	0.7 0.3	← ←	← ←		
C	98,000	→ →	→ 98	→ 20	3.6 1.8	0.7 0.4	← ←	← ←		
O	100,000	→ →	→ 100	→ 20	3.7 1.9	0.7 0.4	← ←	← ←		
N	110,000	→ →	→ 110	→ →	4 2.0	0.8 0.4	← ←	← ←		
D	115,000	→ →	→ 115	→ →	4 2.1	0.8 0.4	← ←	← ←		
I	119,900	→ →	→ 120	→ →	4 2.2	0.9 0.4	← ←	← ←		
T	135,000	→ →	→ 135	→ →	5 2.5	1.0 0.5	← ←	← ←		
I	159,500	→ →	→ 160	→ →	6 3.0	1.2 0.6	← ←	← ←		
O	200,000	→ →	→ →	→ →	7 3.7	1.5 0.7	← ←	← ←		
N	240,000	→ →	→ →	→ →	9 4	1.7 0.9	← ←	← ←		
E	320,000	→ →	→ →	→ →	12 6	2.3 1.2	← ←	← ←		
D	520,000	→ →	→ →	→ →	19 10	3.8 1.9	← ←	← ←		
	1,000,000	→ →	→ →	→ →	37 19	7.3 3.6	← ←	← ←		

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