



## TECHNICAL DATA

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### #285 FUEL SHOCK

#### Applications and Description:

Fuel Shock is a dual phase oil soluble and water soluble potent broad spectrum biocide that is designed to prevent and control bacterial and fungal growth that can occur in diesel fuels, biodiesel fuels and home heating oils.

Diesel fuels and home heating oils are often stored in conditions that can lead to intimate contact with water. Under these storage conditions the growth of micro-organisms can occur. Such microbial growth if not controlled can produce dense masses that are capable of clogging filters, pumps and fuel lines. Microbes also release organic acids which can accelerate corrosion of metals that can result in damage to storage tanks and fuel pumping equipment. Fuel Shock when added to the fuel at **the recommended treatment rate of one gallon to every 4000 gallons of fuel for shock treatment** will kill and control any microbial growth that is present in the diesel fuel or home heating oil.

#### Shock and Maintenance Treatment:

Fuel Shock, when used at the recommended treatment rate, can also be used to shock treat a fuel storage tank that is infested with a large population of micro-organisms. Fuel Shock will kill these micro-organisms so that they can be removed from the system. After the micro-organisms are killed the fuel should be pumped out of the storage tanks, filtered and recirculated to remove the water bottoms and sludge containing the micro-organisms, (approximately 8 to 24 hours depending upon the amount of contamination). **The water bottoms and sludge should then be disposed of as a hazardous acidic industrial oily waste in accordance with all applicable Federal, State and Local Laws and Regulations. Under no circumstances should these water bottoms and sludge be placed into sanitary or storm water sewage systems, landfills or natural waterways such as lakes, rivers and streams. In extreme cases, where severe microbial growth has occurred and this growth is attached to the walls of the storage tank, the tank should be thoroughly cleaned before the treated fuel is placed back into the tank.**

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**STORAGE AND HANDLING**

Fuel Shock is packaged in non-returnable containers. Fuel Shock can be placed by the consumer into stainless steel, glass, fiberglass-reinforced polyester, polypropylene containers for ease of handling purposes.

Do not store or heat Fuel Shock above 122°F/50°C. Keep container closed when not in use. Do not store near food or feed products.

Workmen handling this product or material treated with this product should wear impervious gloves, goggles or face shields and protective clothing. All protective clothing, work shoes, boots and equipment must be left at the work site at the end of the day. Eating, drinking and smoking during use of this product is prohibited. Wash skin thoroughly with soap and water after handling this product. Launder contaminated clothing before reuse.

**Treatment Ratios:**

**Shock Treatment**

<b>Fuel Shock Amount</b>	<b>Gallons of Fuel</b>
<b>0.5 fluid ounces</b>	<b>16</b>
<b>1 fluid ounces</b>	<b>32</b>
<b>2 fluid ounces</b>	<b>62.5</b>
<b>4 fluid ounces</b>	<b>125</b>
<b>8 fluid ounces</b>	<b>250</b>
<b>1 pint</b>	<b>500</b>
<b>1 quart</b>	<b>1,000</b>
<b>2 quarts</b>	<b>2,000</b>
<b>1 gallons</b>	<b>4,000</b>
<b>2 gallons</b>	<b>8,000</b>
<b>5 gallon pail</b>	<b>20,000</b>

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**Maintenance Treatment**

<b>Fuel Shock Amount</b>	<b>Gallons of Fuel</b>
0.25 fluid ounces	29
0.5 fluid ounces	58.5
1 fluid ounces	117
2 fluid ounces	234
4 fluid ounces	469
8 fluid ounces	937.5
1 pint	1,875
1 quart	3,750
2 quarts	7,500
1 gallon	15,000
5 gallon pail	75,000

**THIS DIESEL FUEL ADDITIVE EXCEEDS THE FEDERAL 15 PPM STANDARD AND DOES NOT COMPLY WITH FEDERAL ULTRA LOW SULFUR CONTENT REQUIREMENTS FOR USE IN MODEL 2007 AND NEWER ENGINES.**

**WHEN USED AT THE RECOMMENDED TREATMENT RATES FUEL SHOCK WILL CONTRIBUTE 1.4 TO 5.5 PPM OF SULFUR TO THE DIESEL FUEL.**

**Fuel Shock is not recommend nor approved for use in aviation jet fuels and gasoline (AVGAS).**

**TYPICAL PROPERTIES**

Active Ingredients:	
Methylene bis (thiocyanate)	2.5%
2-(Thiocyanomethylthio) benzothiazole	2.5%
Inert Ingredients:	95%
Density at 77°F/25°C	.96
Approximate weight per gallon	8.01 lbs.
Flash Point (Tagilube closed cup)	158°F/70°C
PH (100 ppm in water)	6-7
EPA Registration No.	1448-71-71246

Packaging: #285 Fuel Shock is available in 55 gallon drums, 5 gallon pails, 4-1 gallons per case and 12 pints per case.