



TECHNICAL DATA

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285 FUEL SHOCK

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 and cause the following problems:

- Formation of dense masses that are capable of clogging filters, pumps and fuel lines.
- Release of organic acids which can accelerate corrosion of metals.
- Corrosive damage to storage tanks and fuel pumping equipment.

When used at **the recommended treatment rate of one gallon to every 4000 gallons of fuel for shock treatment, Fuel Shock** will kill and control any microbial growth that is present in the diesel fuel or home heating oil. Fuel Shock provides the following benefits:

- Kills micro-organisms including: fungus and bacteria to facilitate removal from the fuel system
- Prevents formation of filter-plugging slime
- Fuel and water soluble for a more complete kill
- Prevents corrosion caused by microbial contamination
- Corrosion protection to extend life of storage tanks and fuel systems
- EPA registered as a biocide and fuel additive
- Added lubricity
- Will not exceed the 15 ppm Federal limit for Ultra Low Sulfur Diesel

Shock and Maintenance Treatment:

Shock Treatment

Fuel Shock Amount	Gallons of Fuel
1 pint	500
1 quart	1000
2 quarts	2000
1 gallons	4000
2 gallons	8000
5 gallon pail	20000

Maintenance Treatment

Fuel Shock Amount	Gallons of Fuel
1 pint	1,875
1 quart	3,750
2 quarts	7,500
1 gallon	15,000
5 gallon pail	75,000

Fuel Shock, when used at the recommended treatment rate, can be used to shock treat a fuel storage tank that is infested with a large population of micro-organisms or to maintain and prevent the growth of bacteria and fungus. To treat:

- Fuel Shock should be fed by injection into the fuel fill line as fuel is being added to tank OR
- Fuel Shock may also be splash blended while the tank is being filled to ensure adequate mixing.
- Allow approximately 8 to 24 hours for the Fuel Shock to kill the micro-organisms so 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.
- 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.

The water bottoms and sludge should 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.

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, or 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 should wear impervious gloves, goggles and/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.

In its concentrated form, *this diesel fuel additive does not comply with federal ultra-low sulfur content requirements for use in model year 2007 and newer diesel motor vehicles or model year 2011 and newer diesel non-road equipment engines.*

However when used at the recommended treatment rates, *Fuel Shock will contribute 1.4 to 5.5 ppm of sulfur to the diesel fuel and will not exceed the 15 ppm Federal limit for Ultra Low Sulfur 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:

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