

# Product Data Sheet

## NEW UPDATED FOR LOW-SULFUR DIESEL HB-1000 DIESEL FUEL STABILIZER FLOW IMPROVER

With Flow & Cetane Improvers  
and Tested Low-Sulfur Lubricity Additives

### DESCRIPTION:

HB-1000 is a concentrated diesel fuel stabilizer formula which includes excellent flow and cetane improvers and tested low-sulfur lubricity additives. The total formula is designed to overcome problems encountered by many diesel operators using today's fuels. Primarily, these involve fuel quality and performance the year round and flow problems during severe winters and lubrication of injector parts caused by low-sulfur diesel.

The NEW HB-1000 has been reformulated to include the latest tested lubricity additives available. The additive package has been used, tested and proven on the low-sulfur fuels of California, Arizona and Western Europe. The new methods of refining low-sulfur diesel called "hydrotreating" removes the aromatics from the diesel and allows the fuel to burn much drier leaving little lubrication of injector pumps, a-rings and seals. The lubricity additive package used to address these problems in diesel has been tested and proven in accordance with ASTM D-2783-83, Diesel Fuel Lubricity Measurement.

The winter problem is the tendency of these fuels to "cloud" and "gel" when cold-soaked at lower temperatures. At low temperatures, the fuels become too "thick" to flow properly through fuel lines and filters fa diesel powered equipment. The cause of "clouding" and "gelling" is the clustering of the wax crystals that are always present in NO. 2 fuels. Current refining processes do not refine these fuels as much as gasoline and other lighter fuels, resulting in much higher wax content. So, when temperatures drop enough, the wax structure changes to a crystalline-type which sticks together and affects the whole fuel, plugging filters and changing from free-flowing liquid to a non-flowing gel. Users of No. 2 diesel fuel can avoid the low temperature flow problem by treating the fuel with HB-1000, a treatment which prevents the flow problems caused by clouding and gelling.

### COMPOSITION:

HB-1000 is formulated with the best materials available and is blended to achieve the right combination of performance characteristics. This is accomplished by blending a solvent refined neutrals with additives that will lubricate injector parts, control low temperature fluidity, improve diesel combustion, impart water moisture protection, prevent deposits fa fuel gums and increase fuel storage stability for longer periods of time.

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# Product Data Sheet

H8-1000 Diesel Fuel Stabilizer Continued.

## PERFORMANCE CHARACTERISTICS:

HB-1000 Diesel Fuel Stabilizer with Flow and Cetane Improvers and Lubricity Additives will improve any NO. 2 fuel, and the operation of diesel powered equipment by utilizing:

1. A flow improver which modifies the wax crystals so that low temperature flow and filter plugging problems are prevented. The elimination of equipment down-time due to fuel flow problems will help net profits, since out-of-service units mean lost revenues, higher maintenance costs and unproductive labor/management costs. Using a NO. 2 fuel year round benefits the operator by lowering initial fuel costs and giving better mileage and power output.
2. A diesel ignition improver which raises the cetane performance of the fuel, resulting in easier starts and better operation. When diesel powered equipment starts easier and gets better (more complete) combustion, then maintenance and fuel costs are automatically reduced. Electrical maintenance costs, particularly batteries and starters, can be sizeable. Reduced maintenance costs are always reflected directly in the net profits.
3. An anti-oxidant which improves the stability quality of the fuel during storage and retards the deterioration that can occur during long term storage.
4. A gum dispersant that prevents deposits of insoluble gums in the fuel system and on internal parts, particularly diesel injectors.
5. A moisture displacing corrosion inhibitor that protects fuel storage and engine fuel system components from rust and corrosion damage, especially diesel injectors.
6. A tested lubricity additive package for lubrication of injector parts, o-rings and seals.

As formulated, HB-1000 mixes very readily with fuels, minimizing time and effort involved in the treatment process.

## APPLICATION:

For normal operation conditions, use one gallon of HB-1000 per 1,000 gallons of fuel in storage.

For winter operation, use one gallon of HB-1000 per 500 gallons of fuel in storage.

## DESIGNED FOR USE IN:

Trucks	Construction Equipment
Buses	Storage Tanks
Automobiles	Mining Equipment
Agricultural Equipment	Drilling Equipment

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