



## COMBUSTION SYSTEM CATALYST

IMPROVE PERFORMANCE • REDUCE EMISSIONS • IMPROVE MILEAGE

### Simple Explanation – EcoSave™ Catalyst Treats the Engine – Not the Fuel!

EcoSave™ Catalyst improves engine performance by enhancing the combustion rate of fuel in the combustion chamber. When added to fuel EcoSave™ Catalyst is carried to the combustion chamber where it is activated under conditions of high temperature and pressure. An active catalytic residue forms on the piston face and fire deck resulting in a faster burn rate of the air-fuel mixture. The “catalyzed” burn rate means more fuel burns during the expansion/power stroke of the piston and less is exhausted as unburned hydrocarbon and carbon monoxide. The results are measureable improvements in engine performance – increased power and fuel economy - with dramatically lower exhaust emissions.

### Improves Fuel Economy

Independent laboratory studies under controlled conditions prove that EcoSave™ Catalyst improves fuel economy by 15 – 20%. Typical results from real world applications range from 7 – 11% reduced fuel consumption.

Exhaust emissions are reduced by substantial levels:

Carbon Monoxide	20 - 60%
Unburned Hydrocarbons	50 - 80%
Nitrogen Oxides	15 - 65%
Smoke (PM)	50 - 80%

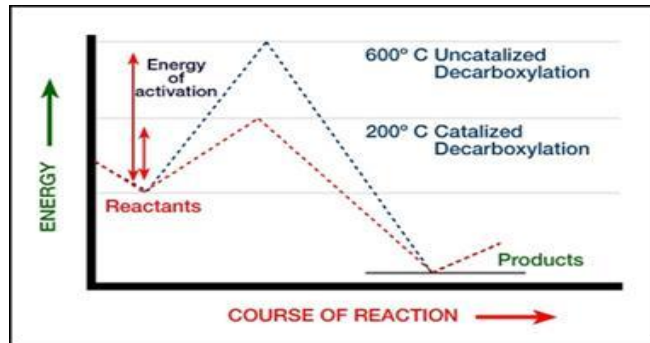
### Keeps Engines Running Smoother, Longer!

Maybe the most important reason for using EcoSave™ Catalyst is that your engine will last longer. Inefficient fuel combustion causes carbon deposits to build up in the engine and results in greater friction, causing more wear. EcoSave™ Catalyst will burn off any existing deposits; consistent use of EcoSave™ Catalyst will also prevent new deposits from forming. In addition to the savings on fuel consumption EcoSave™ Catalyst also lowers maintenance costs.

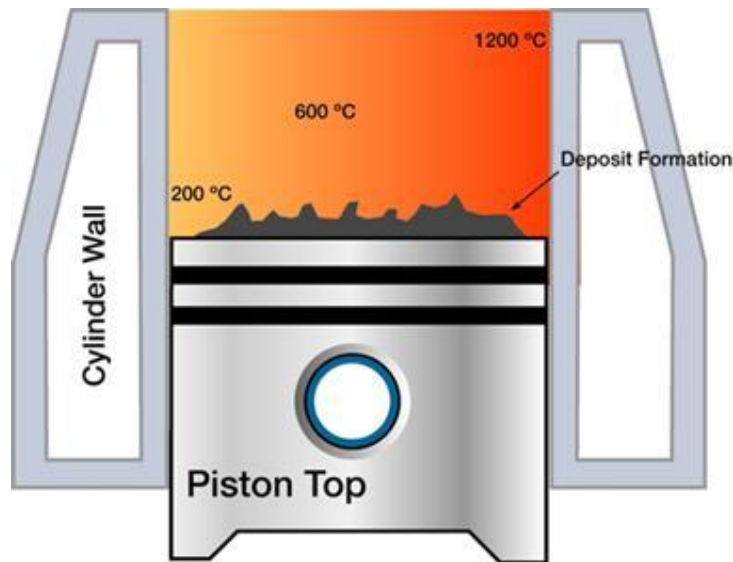
## CATALYTIC EFFECTS

Below is a diagram of how EcoSave™ Catalyst affects the internal combustion engine.

Carbon deposits form along the surfaces of the combustion chamber and will not combust at temperatures lower than 600°C. The surfaces of the combustion chamber stay cooler than 600°C, which means that these deposits will not burn off by themselves. These deposits are what cause your fuel mileage or engine performance to drop over time and are the primary cause of toxic engine emissions; they are what cause your engine oil to get dirtier faster; they are what plug up your fuel injectors. The effect of EcoSave™ Catalyst is to lower the Energy of Activation of the rate determining combustion step to 200°C, which allows the carbon deposits to burn off at temperatures much lower than 600°C.



Below is a diagram of a combustion chamber where as you can see, the areas around the Piston Tops and Cylinder walls are relatively cooler. These are the areas where impurities tend to build up and form deposits. EcoSave™ Catalyst bonds to these impurities and deposits, and as a catalyst it allows a chemical reaction to happen at a temperature where it normally wouldn't happen. This chemical reaction allows the fuel to completely combust during the power stroke of the cylinder and the carbon deposits to burn off. The active catalytic residue gradually forms on bare metal surfaces.





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The recommended treatment ratio for EcoSave™ Catalyst is as follows:

### Suggested Use\*:

Gasoline & Low Sulfur Diesel (Gallons)	EcoSave Liquid
10 - 15 gallons	1/4 oz
30 gallons	1/2 oz
60 gallons	1 oz
7700 gallons	1 gallon

Ultra Low Sulfur Diesel (Gallons)	EcoSave Liquid
15 - 20 gallons	1/4 oz
40 gallons	1/2 oz
80 gallons	1 oz
10,000 gallons	1 gallon

\*Use 2x higher dose on first tank of treated fuel

Send questions via email to: [support@eercare.com](mailto:support@eercare.com)

EcoSave™ Catalyst should be used continuously to achieve maximum sustainable benefits.

**WARNING:** Do not exceed suggested use.

EcoSave™ Catalyst will reduce fuel costs, clean abrasive deposits out of your engine, extend engine life, reduce emissions, improve your overall performance, and clean the environment.

EcoSave™ Catalyst/EPA

U.S. Environmental Protection Agency (EPA) registered.

## Frequently Asked Questions

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**Q. How will I know that it's working in a car or truck and how long will it take before I notice?**

**A.** There are a number of ways to know if EcoSave™ Catalyst is working, but if you don't want to pull apart your engine or go to get an emissions test every other month, a simple way is to track your fuel mileage, both freeway and city driving. Improved fuel mileage has a direct correlation with more efficient fuel combustion in the engine, and results in lower emissions.

Another easy way to see that it is working is to check your oil. Due to less carbon (Particulate Matter) blow by, your oil will stay cleaner longer.

For stationary engines and construction and mining equipment these engines will run longer on the same amount of fuel.

The time it will take to notice a difference will depend on the history of the vehicle, because some engines will have more deposits than others. It takes time for the EcoSave™ Catalyst to remove existing deposits and for the active catalytic layer to form on piston faces and internal cylinder head. We recommend the consistent use of EcoSave™ Catalyst for ongoing benefits of increased engine performance and savings on the high cost of fuel. With proper use everyone should notice a significant difference within 1,000 miles of driving with the consistent use of EcoSave™ Catalyst.

**Q. How do I apply EcoSave™ Catalyst to my fuel and how much should I apply?**

**A.** When using the EcoSave™ Catalyst, place the desired amount into the fuel filler and begin fueling. Monitor your results. Over time better results may be achieved at lower doses.

**Q. How often should I add EcoSave™ Catalyst to my fuel?**

**A.** EcoSave™ Catalyst is safe and required to use with every fill-up. The more consistent you are, the more money you'll save.

**Q. How should I store EcoSave™ Catalyst?**

**A.** You should always keep EcoSave™ Catalyst out of the reach of children. Do not store it in extreme temperatures, or in direct sun light.

**Q. Can EcoSave™ Catalyst cause damage to my vehicle?**

**A.** As long as EcoSave™ Catalyst is used in the recommended dosages it will never cause any damage to a vehicle. In fact, when used correctly, EcoSave™ Catalyst will extend the life of an engine. EcoSave™ Catalyst is registered with the United States Environmental Protection Agency, is test proven and are supported by years of scientific data.

**Q. What is a catalyst?**

**A.** A catalyst is a substance that causes a chemical reaction to happen at a lower or higher level of energy without itself changing. In this case EcoSave™ Catalyst causes the combustion resistant components in fuel to combust at lower temperatures than they normally would.