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**Why Ecotane® is the Best Fuel Additive**



### **Ecotane® Saves money**

*By allowing optimum refinery flexibility in gasoline blending and production:*

- Ecotane® increases gasoline Research Octane Number (RON) without affecting other fuel properties such as Reid Vapor Pressure (RVP).
- Ecotane® allows easy adjustment of octane as a fuel blending additive or trimming agent. Just one drop, 0.018 gram Mn per liter of gasoline, raises the RON 2 to 3 numbers.
- Ecotane®'s low treat rates allow for the reduction or elimination of other costly gasoline components.
- Ecotane® is compatible with all fuels, blending components, and additives.

### **Ecotane® Saves energy**

*Using Ecotane® allows refiners to lower unit operation severity thereby lowering crude oil and energy consumption, extending the gasoline pool, and improving refinery efficiency.*

### **Ecotane® Lowers mobile source air toxic (MSAT) emissions**

*By helping refiners formulate cleaner burning gasoline:*

- Ecotane® can lower the aromatic and benzene content of gasoline by replacing the octane lost when these aromatics are removed from gasoline.
- Ecotane® can lower the olefin content of gasoline thereby reducing ozone precursor components.
- Ecotane® increases octane without affecting the RVP allowing the refiner to remove volatility components from the gasoline pool, therefore lowering evaporative emissions and reducing ozone precursors.

### **Ecotane® Lowers greenhouse gases (GHG)**

*Lower fuel consumption reduces greenhouse gases (GHG) emissions.*

### **Ecotane® Provides valve seat recession (VSR) protection for older vehicles**

*Ecotane® reduces gasoline engine valve seat wear in older vehicles. In gasoline markets that offer an alternative to leaded gasoline, Ecotane® prevents valve wear, improves combustion and reduces emissions.*

### **Ecotane® Protects vehicle emission systems from oil and lubricant-borne contaminants.**

- Manganese from Ecotane® combustion preferentially binds with phosphorus and sulfur in vehicle exhaust gases.
- When bound to manganese in the exhaust gas, phosphorus and sulfur cannot act to poison the operation of catalytic converters and oxygen sensors thereby extending optimal performance of the vehicle's emission control system.

### **Ecotane® has demonstrated no identifiable risk to public health or welfare.**

*As the most extensively tested additive in history, more is known about the effects of Ecotane® use than any other additive.*