



## Castor Additive

### SUPER LUBRICANT AND FUEL SUPPLEMENT FOR 2 AND 4 CYCLE ENGINES

For over 30 years we have produced a special non-gumming castor lubricity and fuel supplement for manufacturers and the construction industry. With the advent of spare-time fun machines and portable power equipment, this product has found its way from industry to personal equipment. Its use in motorcycles, mini-bikes, snowmobiles, outboards, lawnmowers, chain saws, etc. has resulted in drastically improved performance and dependability of this equipment and more and more of this product is "Going home".

#### ABOUT THE PRODUCT

This product is a castor oil derivative compounded with special additives that vastly improve lubrication and prevent corrosion after shutdown. It is guaranteed not to cause gummy deposits when added to mineral or synthetic oils used in 2 cycle engine lubrication, or when used as an upper cylinder and crankcase lubricant in 4 cycle engines.

4 CYCLE SERVICE: Gasoline and diesel engines, automobiles, trucks, construction equipment, lawnmowers, motorcycles, farm machinery, etc.

ADVANTAGES: (When added to crankcase oils – 1 ounce per 5 or 6 quarts)

1. Imparts increased oiliness to mineral oils, reduces internal friction and reduces engines oil temperatures 10-50° F. Especially effective for long distance driving or towing trailers.
2. Enhances the wetting power of mineral oils on metal surfaces. A thin film of lubricant remains to provide lubrication on start up.
3. Prevents rusting of surfaces when equipment is idle.
4. Exerts a powerful detergent action on tar, varnish and carbon deposits in both liquid and vapor phase.
5. Frees sticking valves and lifters.

NOTE: For excessive carbonization or for removal of heavy crankcase and valve cover sludge, use 2% to 3% by crankcase volume of the castor additive to obtain proper cleaning action. Run engine for a minimum of 500 miles before changing oil and filter. It is suggested that all oil pan bolts and valve cover bolts be checked for tightness to prevent seepage. The additive will not harm engine gaskets.

CASTOR ADDITIVE is not a viscosity improver. It will not thicken oil.

The internal friction of the lubricant is greatly diminished; the ability of the lubricant to wet metal surfaces is increased far out of proportion to the amount of additive present; and the tendency for the mineral oil to distill from metal surfaces at high temperatures is decreased.

### UPPER CYLINDER LUBE:

In fuel      Use 1 ounce of CASTOR ADDITIVE for every 5 gallons of gasoline or 4 ounces per 20 gallons every other tankful. This provides lubrication to valves, cleans the upper cylinders and inhibits the formation of hard carbon, gum and varnish. (The additive yields a solvent during combustion that closely resembles gasoline hydrocarbons and it is unique in that it does not lower the octane of the gasoline). Automotive gas mileage is generally improved 2 to 4 miles per gallon during long distance trips.

FUEL STORAGE:      In bulk tanks – contractors, farmers, highway departments, school systems.  
Add 1 ounce per 5 gallons gasoline or diesel fuel. One (1) gallon will STABILIZE 640 gallons of fuel.

4 CYCLE ENGINE STORAGE:      Gasoline and Diesel Engines  
Add 2 ounces to each 5 gallons fuel and 1 ounce for every 5 quarts in crankcase, run engine at least 10 minutes prior to shut down for storage.

Unlike other fuel additives and stabilizers, CASTOR ADDITIVE performs through superior lubrication during operating conditions and will protect indefinitely, regardless of humidity conditions during storage. When CASTOR ADDITIVE is used according to directions it is guaranteed to prevent rust or corrosion for one year.

2 CYCLE SERVICE:      Snowmobiles, motorcycles, outboards, chain saws, power equipment, etc.

### ADVANTAGES:

1. Reduces friction in engine, increases RPM, cools engine.
2. Assures a clean engine by eliminating carbon, gum and varnish deposits on rings, exhaust ports and plugs.
3. Prevents internal rust and corrosion during prolonged storage periods.
4. Excellent lubricant for carburetor diaphragms – will not allow diaphragms or fuel lines to deteriorate or dry out.
5. Provides solvency for fuel tars, gums and varnishes during storage.
6. Easier starts – eliminates dry starts.
7. Prevents gas line freeze-ups.
8. Stabilizes fuel during storage.

### DIRECTIONS:

Operating      Add 2 ounces to 5 gallons gas/oil mix.  
Storage      Add 4 ounces to 5 gallons gas/oil mix and run engine for 10 minutes prior to storage.

CASTOR ADDITIVE can also be used as a general purpose lubricant and is especially effective for coating bearings when re-building engines.

NOTE: TENA-FILM engine oils, TF-580 Synthetic Oil, gear oils and hydraulic oils already contain the CASTOR ADDITIVE. Therefore, it is not necessary to add any additional amount to these oils.