

This & That...

STIHL Alcohol Bulletin

Visit www.cdcastihl.net and click on Technical Service Library on the left hand side of the page. Along with tons of other technical information take a look at the CDC•BME Technical Field Notes and click on Alcohol Fuel Bulletin. This bulletin explains everything you need to know about using alcohol in the mixture lubricated engine.

STIHL Fuel Stabilizer

Prevents fuel from deteriorating, thus protecting the engine fuel system during long storage periods of up to 1 year. This product prevents the formation of gum and varnish, keeping fuel system components clean. STIHL Fuel Stabilizer can be used with all 2-cycle engines. It is sold in an 8 oz. bottle.



Important Fuel Bulletin

Mixture Lubricated Engines

The mixture lubricated engine is a highly complex piece of equipment that differs from the engine in your automobile. It requires a mixture of high-quality gasoline and quality two-stroke engine oil. Please read your instruction manual carefully and always follow its content.

1. STIHL recommends use of mid-grade unleaded gasoline with a minimum octane rating of 89 (R+M/2). If the octane rating of the mid-grade gasoline in your area is lower, use premium unleaded fuel. Fuel with a lower octane rating may increase engine temperatures. This, in turn, increases the risk of damage to the engine.
2. The chemical composition of the fuel is also important. For this reason STIHL recommends that you use only nationally recognized high-quality unleaded gasoline. Some fuel additives detrimentally affect elastomers (carburetor diaphragms, oil seals, fuel lines, etc.) which can lead to abnormally high engine temperatures and increase the risk of damage to the engine. These same additives can also increase combustion deposits as well which can also cause damage to the engine.
3. Fuel containing no more than 10% ethanol can be used in STIHL equipment. However, make sure to keep your fuel canister closed tightly as ethanol can absorb moisture from the air. This can contaminate the entire fuel system and could cause damage to the carburetor and/or risk of damage to the engine. **DO NOT** use E85 (85% ethanol).
4. Use only STIHL two-stroke engine oil or equivalent high-quality two-stroke engine oils that are designed for use only in air cooled two-cycle engines. We recommend STIHL 50:1 two-stroke engine oil since it is specially formulated for use in STIHL engines. **DO NOT** use BIA or TCW rated (two-stroke water cooled) mix oils or other mix oils that state they are for use in both water cooled and air cooled engines (e.g., outboard motors, snowmobiles, chain saws, moped, etc.).
5. As always take care when handling gasoline. Avoid direct contact with the skin and avoid inhaling fuel vapor. When filling at the pump, first remove the canister from your vehicle and place the canister on the ground before filling. Do not fill fuel canisters that are sitting in or on a vehicle. The canister should then be kept tightly closed in order to avoid any moisture getting into the mixture.
6. Only mix sufficient fuel for a few days work. STIHL oil contains a limited amount of fuel stabilizer that will improve the shelf life of mixed fuel to approximately 60 days storage. If not using STIHL oil only store mixed fuel for approximately 30 days. Store in approved fuel-canisters only. When mixing, pour oil into the canister first, and then add gasoline. Close the canister and shake it vigorously by hand to ensure proper mixing of the oil with the fuel.

Storing the Machine

For periods of about 60 days or longer:

- Add the recommended amount of STIHL Fuel Stabilizer or drain and clean the fuel tank in a well ventilated area.
- Dispose of remaining fuel and cleaning solution properly in accordance with local environmental requirements.
- If you have chosen to drain the fuel tank, run engine until carburetor is dry, this helps prevent the carburetor diaphragms sticking together or becoming stiff.
- Store the unit in a dry and high or locked location out of reach of children and other unauthorized persons and if possible in an area with a controlled temperature.
- Stale or contaminated fuel related failures are not defects in materials and/or workmanship and will not be considered for warranty coverage and are the operator's responsibility.

