



How do I premix my own 2-stroke fuel (25:1)?

What you'll need:

- BP Unleaded 95 or BP Unleaded 91
- Castrol 2T Self Mix 2-stroke

What to do:

1. Combine 25 parts of fuel with 1 part of lubricant in a container large enough to hold the total volume of fluid.
2. Mix well.

25:1 mixing guide

This amount of BP Unleaded 95 or BP Unleaded 91	Plus this amount of Castrol 2T Self Mix 2-stroke
5 litres	200 mL
10 litres	400 mL
20 litres	800 mL
100 litres	4 litres

Before using ethanol blend, consult with the engine's manufacturer. If in doubt, use BP Unleaded 95.

How do I premix my own 2-stroke fuel (50:1)?

What you'll need:

- BP Unleaded 95 or BP Unleaded 91
- Castrol Super Outboard Plus 2-stroke

What to do:

1. Combine 50 parts of fuel with 1 part of lubricant in a container large enough to hold the total volume of fluid.
2. Mix well.

50:1 mixing guide

This amount of BP Unleaded 95 or BP Unleaded 91	Plus this amount of Castrol Super Outboard Plus 2-stroke
5 litres	100 mL
10 litres	200 mL
20 litres	400 mL
100 litres	2 litres

Before using ethanol blend, consult with the engine's manufacturer. If in doubt, use BP Unleaded 95.



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2-stroke fuel guide

How to premix your own 2-stroke fuel.

Check with your engine manufacturer for compatibility.

More information

www.bp.com.au/renewables

Technical Fuels Helpline 1300 139 700

Most of us have a piece of 2-stroke equipment somewhere at home. It might be an essential everyday item like a lawnmower, or recreational equipment like a jet ski or dirt bike.



Whatever your 2-stroke device, you'll want it to run like a dream every time. The best way to ensure this is by pre-mixing your own 2-stroke fuel and keeping it fresh. Here's what you need to know.

What is a 2-stroke engine?

A 2-stroke engine fires on every revolution of the crankshaft and is usually more powerful than a 4-stroke engine of equivalent size.

However, as 2-stroke engines are lighter in weight and simpler in construction, they are popular in smaller devices, such as lawn mowers, chainsaws, brushcutters, whipper snippers, boats, jet skis and motorcycles.

What are the best fuels and lubricants for premixing 2-stroke fuel?

At BP, we recommend the following fuels for premixing 2-stroke fuel:

- BP Unleaded 95
- BP Unleaded 91

The lubricants we recommend are:

- Castrol 2T Self Mix 2-stroke (for ratios of 25:1)
- Castrol Super Outboard Plus 2-stroke (for ratios of 50:1)

What about new BP Unleaded 91 with up to 10% renewable ethanol?

While new BP Unleaded 91 with up to 10% renewable ethanol is great for most cars, **we don't recommend it for use in 2-stroke engines without first consulting with your engine manufacturer.** This is because:

- Ethanol-blended fuel contains higher oxygen content and some small engines, such as chainsaws and whipper snippers, aren't able to compensate for the increased oxygen in the fuel mixture.
- Different engines have different fuel requirements and some older engines are not suitable for fuels containing ethanol. So, always check with your engine manufacturer before use.
- Ethanol-blended fuel is incompatible with some carburetted engines.
- Ethanol-blended fuel may soften plastic and fibreglass components in your fuel tank, causing them to leech resin and damage filters and injectors.
- In marine environments, water from condensation may collect in fuel tanks. This water can cause ethanol to separate from the rest of the fuel and sink to the bottom of the tank. This process, known as phase separation, can lead to poor engine performance or breakdown.
- Spillage of ethanol-blended fuel onto your equipment's paintwork may cause blistering.

What if I still want to use new BP Unleaded 91 with ethanol in my 2-stroke engine?

If you still wish to use new BP Unleaded 91 with ethanol, first make sure your engine manufacturer approves the use of ethanol-blended fuels.

If your equipment can use new BP Unleaded 91 with ethanol, then:

- Always ensure the fuel you use meets the engine manufacturer's minimum octane requirements.
- Before filling up with ethanol-blended fuel, always ensure your tank is completely dry with no traces of the previous fuel used.

- Where possible, start off with fresh fuel or fuel mixes and run the fuel tank to empty after use as this will prevent the fuel from turning stale.
- Don't let ethanol-blended fuel sit unused in your tank for more than two months to avoid phase separation.
- Take care when filling your tank with ethanol-blended fuel as spillage may cause blistering of paintwork.
- Pay attention to your engine. If it sounds or runs differently after you change to ethanol-blended fuel, visit your local mechanic for an engine check and clean.

Keeping your 2-stroke fuel fresh

2-stroke fuel is best used fresh, making starting easier and engines run cleaner. To maintain maximum freshness and performance:

- Store your 2-stroke fuel in an approved fuel container (stamped AS2906), in a cool, dry, ventilated place. It can be stored for up to three months.
- Always shake the mixture before use to ensure the lubricant is evenly blended. Take care when removing the lid from the container.

A fresh look at 2-stroke fuel

Whether it's in a boat, jet ski, motorcycle or lawnmower, a 2-stroke engine will run best on fuel that's fresh.

Premixing your own 2-stroke fuel means you can have fresh fuel whenever and wherever you need it.