

LONGMA CLEAN ENERGY

*Vplus7*  
**BIOFUEL ADDITIVE**

Vplus7 is a diesel biofuel additive specially formulated for use with straight vegetable oil (SVO) and diesel blends. It can also be used in vehicles with 100% SVO conversions. Vplus7 is suitable for use with biofuel and biodiesel purchased from a supplier or processed at home. It is designed specifically to address certain problems that can be associated with the use of biofuels in engines.

**Longma** *Vplus7*.

- Improves combustion therefore improves fuel efficiency
- Reduces toxic fuel emissions
- Keeps injectors and fuel system components clean
- Reduces the impact of low-quality vegetable oils such as recycled cooking oil
- Results in noticeable improvements in engine performance
- Stabilises the fuel, reducing filter blockages due to in-tank polymerisation
- Is compatible with any vegetable oil based fuels

Vplus7 does not however: thin the biofuel; reduce the acid content in used vegetable oil; prevent waxing (the formation of solid fats at low temperatures).

**Treat Rate:**

Type of vegetable oil	Vplus7 per 10L	1 litre Vplus7 treats
Good quality used oil	40ml	250 litres

Fresh rapeseed oil or biodiesel	20ml	500 litres
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### **Using Vplus7**

Simply add Vplus7 to your fuel tank or mix with biofuel prior to storage. If blending with diesel, the treatment rates refer to the quantity of biofuel, not the total quantity of blended fuel.

When using vegetable oils (i.e. not biodiesel), it is essential that the vegetable oils are blended with normal mineral diesel, unless the vehicle is fitted with an appropriate SVO conversion. The ratio depends on your vehicle and the time of year. Running inappropriately strong vegetable oil blends can cause serious damage to your engine or fuel system.

### **Storage of Fuel**

Biofuels are more biodegradable than mineral oils and must be stored more carefully. Unused food oils can be stored in original unopened containers for at least two years beyond the sell-by date. Likewise cold pressed rapeseed oil will last several years in airtight containers. Used cooking oil (UCO), or biodiesel made from UCO, is much less stable, and should be mixed with Vplus7 prior to any storage. Ideally use within 9 months. If biofuel of any type is stored in non-airtight containers, such as fuel tanks, mix with Vplus7 prior to storage. Use within 6 months.

### **Notes on using SVO biofuel:**

- Unless you have a full SVO conversion, SVO fuel must be blended with mineral diesel. The proportion of mineral diesel depends on your diesel car.
- When vegetable oil is cooled below a certain point it will go cloudy. Care should be taken, particularly in winter, as cloudy oil will block your fuel filter.

- Contamination with water will lead to more rapid degradation of the oil as well as microbial growth (diesel bug). Some diesel tanks may have a pre-existing diesel bug infestation. In severe cases it is necessary to drain the fuel tank. The fuel additive Soltron ([www.soltron.co.uk](http://www.soltron.co.uk)) is useful in cleaning infected tanks, but it can only be used in pure mineral diesel.

### **Vplus7 Safety**

Keep away from heat and ignition sources. Do not swallow it. Avoid breathing vapour. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed. Contains ethyl hexyl nitrate. Safety Data sheet can be downloaded.

### **First Aid**

SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! FIRE FIGHTING MEASURES: Fire Extinguisher Type: Carbon Dioxide, dry chemical powder or appropriate foam Fire/Explosion Hazards: Vapour may travel considerable distance to source of ignition and flash back.

### **Disclaimer**

The information provided above is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Any advice provided does not release you from the obligation to check its validity and to test the products as to their suitability for the intended processes and uses. The application, use and processing of this product and the products manufactured by you are beyond our control and, therefore, entirely your own responsibility.