

# OCTAMAR™ LI-5 PLUS

## Marine Fuel Preservative

**OCTAMAR™ LI-5 PLUS** is a powerful Lloyds Register-approved marine fuel preservative specifically formulated for commercial shipping & super-yachts. **OCTAMAR™ LI-5 PLUS** ensures your fuel can be stored effectively and then burnt efficiently. This leads to a range of operating benefits including improved fuel economy, emissions, power, noise & vibration.

## What is **OCTAMAR™ LI-5 PLUS**?

**OCTAMAR™ LI-5 PLUS** is a multifunctional additive, specifically formulated for commercial shipping & superyachts, to overcome quality issues and reduce risk when using marine distillate fuel.

Distillate fuels are to become an increasing part of the marine fuel pool in commercial shipping. Heavy fuel oils are decreasing in frequency due to worldwide fuel legislation changes (MARPOL).

Sulphur content is being systematically reduced which has numerous implications for commercial operators - most notably differing fuel solubility and therefore stability.

Many vessels will begin to suffer fuel storage and combustion problems as a result of these changes in the coming years. **OCTAMAR™ LI-5 PLUS** provides complete engine and fuel system protection - eliminating risks and ensuring integrity of your vessel irrespective of bunker fuel quality.



## How does **OCTAMAR™ LI-5 PLUS** work?

**OCTAMAR™ LI-5 PLUS** improves oxidation and thermal stability in your marine fuels, allowing extended storage periods. **OCTAMAR™ LI-5 PLUS** also protects against the potential presence of Biodiesel (FAME), and possible corrosion caused by high TAN (Acidic) fuels - these can cause engine corrosion and ultimately engine shutdown.

**OCTAMAR™ LI-5 PLUS** reduces fuel injector fouling, provides improved protection against corrosion, reduces risk of filter blocking, Improves fuel lubricity and reduces wear risk of fuel pumps and fuel injection equipment.

In improving the stability of your fuel a wide range of benefits will accrue to marine users in commercial shipping, Superyachts and fleet users, including improved fuel economy, emissions, power, noise and vibration.





## Approval of **OCTAMAR™ LI-5 PLUS**

**OCTAMAR™ LI-5 PLUS** has been verified by Lloyds Register as of 2014. This is the first fuel additive of its kind to ever be approved by Lloyds Register Product Verification Service. The product claims have been independently tested, verified and approved by Lloyds Register. The product improves fuel against the following common fuel testing methods:

- + Oxidation Stability (ISO12205)
- + Thermal Stability (ASTMD6468)
- + Injector Fouling (CECF-23-01 Peugeot XUD9)
- + Steel Corrosion (ASTMD665 A & B)
- + Fuel Lubricity (HFRR ISO12156)
- + Filter Blocking Tendency (IP387)

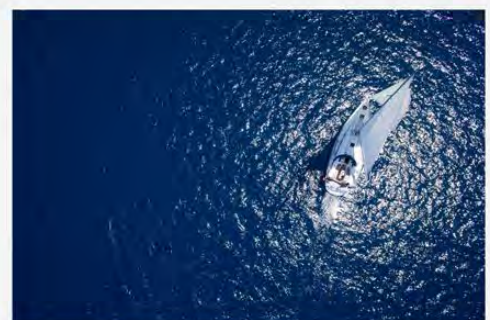


## **OCTAMAR™ LI-5 PLUS Applications**

**OCTAMAR™ LI-5 PLUS** is now used by some of the largest commercial shipping companies globally to protect their engines from the changing fuel specifications.

**OCTAMAR™ LI-5 PLUS** can be used by any marine application using Marine Gas Oil (M.G.O. ISO 8217). It should be used as a preventative measure and dosed when bunkering. In some bunkering locations where fuel quality, storage and provenance is unknown the use of **OCTAMAR™ LI-5 PLUS** should be considered paramount in protecting your engines & fuel system.

As part of a injection system, **OCTAMAR™ LI-5 PLUS** can be directly dosed into all bunkering fuels on a permanent basis at 250ppm, and also used together with **KATHON™ FP 1.5** Fuel Biocide for complete protection from poor bunkering fuel quality.



## OCTAMAR™ LI-5 PLUS Technical Data

Manually dose **OCTAMAR™ LI-5 PLUS** direct to storage/bunker tanks – prior to, or during, every bunkering OR manually dose **OCTAMAR™ LI-5 PLUS** direct to service tank – prior to or during every filling. The recommended dosage rate is 1kg **OCTAMAR™ LI-5 PLUS** per 4 tonnes fuel which equates to a dosage ratio of 250ppm.

Fuelcare advise all customers to consider the use of automated injection systems for dosing **OCTAMAR™ LI-5 PLUS** or any other fuel treatment. A Fuelcare **M77** dosing system can be located in the main bunkering line to your fuel tanks, injecting treatments automatically during refuelling procedures.

This system **M77** system requires no power and can be fabricated to your specific dimensions/system layout. The system can dose up to 4 fuel additives simultaneously and using the **M77** communications system, Fuelcare can monitor the system 24/7 using GSM data or satellite online.



Fuelcare is a private British company that specialises in improving fuel quality. Our head office & laboratory based in Shrewsbury, U.K., is dedicated to fuel engineering. All Fuelcare staff are members of the Energy Institute & IASH (Stability, Handling & Use of Liquid Fuels).

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