



Product overview

MARINE

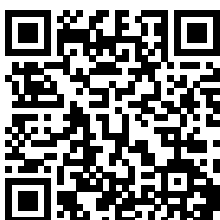


LIQUI MOLY Marine: Your safe harbor for engine & tank

Keeping you safe whenever you go on the water: our marine range

On the water, reliability comes first. Only those who can rely on their engine and material at all times are immune to unpleasant surprises. Permanent moisture, changing, often rough weather conditions and irregular periods of use place the highest demands on technology and equipment. With our specially developed marine range, we ensure that your boat and equipment retain full function and performance over the long term.

We offer you tailor-made solutions from a single source for almost any maritime problem: For one thing, we have engine and gear oils as well as fuel additives that can help you combat or avoid common problems such as poor lubrication, lack of preservation, corrosion and bacteria. Secondly, greases and care products that guarantee maximum reliability and protection.



Welcome aboard:
Simply scan the QR code and go
directly to the Marine website.



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Explanation of the pictograms :



biodegradable and environmentally friendly product



especially recommended for regular use during the season



especially recommended for safe winterization or storage of the boat



Additives

The all-round carefree guarantee for your boat: our additives

Our additives are aids or admixtures that you add to the fuel in small quantities. Depending on the additive, you can achieve or improve certain properties of your boat. Our additives optimize the performance of fuels or combat a wide variety of problems, e.g. due to water ingress. We offer you various additives for diesel and gasoline engines. Developed for common problems such as combating or preventing diesel bugs, long-term preservation or cleaning the entire fuel system and retaining the full engine performance.

	Diesel additives		Gasoline additives	
	Marine Diesel Protect	Marine Super Diesel Additive	Marine Fuel Stabiliser	Marine Fuel System Cleaner
Biocide	●●●	○○○	○○○	○○○
Cetane number improver*	●●○	●●●	○○○	○○○
Cleaning	●●●	●●○	○○○	●●●
Corrosion Protection	●●●	●●○	●●●	●●○
Ageing Protection	●●○	○○○	●●●	○○○
Performance	●●○	●●●	○○○	●●○
Continuous use	●●●	●●●	●●●	●●●

*The cetane number describes the ignition performance of diesel fuel.



Marine Diesel Protect Shooter

The efficient solution for bacteria, yeast and mold. Ideal for reliable long-term preservation. Ensures maximum cleanliness in the entire fuel system and protects against corrosion. With cetane number booster for easier starting when recommissioning and maximum engine performance. **Use biocides safely. Always read the label and product information before use.**



Marine Diesel Protect

The efficient solution for bacteria, yeast and mold. Suitable for reliable long-term preservation. Maintains and protects the entire fuel system thanks to cleaners and corrosion protection. With cetane number booster for easier starting when recommissioning and maximum engine performance. **Use biocides safely. Always read the label and product information before use.**

Area of use

For preventive use and for disinfecting contaminated tank systems on vessels. Suitable for up to 200 l for preventive use. Booster dose sufficient for up to 40 l for systems which are already contaminated.

Cont.

200 ml

Packaging Unit

20

Part no.

25099



For preventive use and for disinfecting contaminated tank systems on vessels and in storage tanks. Ratio 1:200 booster dose for systems which are already contaminated. One measuring cup (25 ml) is sufficient for 5 l of diesel fuel. As a preventive application (1:1,000), one measuring cup (25 ml) is sufficient for 25 l of diesel fuel.

500 ml

6

25000³⁵¹

500 ml

6

25001³⁹⁸

1 l

6

25002³⁵¹

1 l

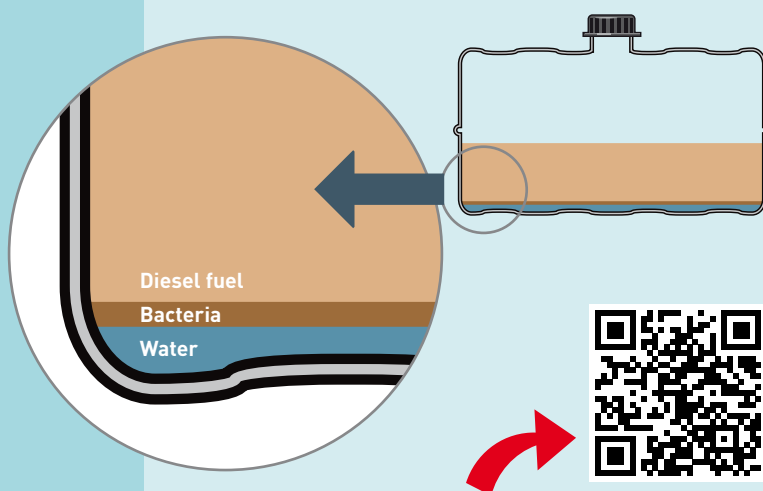
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25003³⁹⁸



Technical comment

Every boat owner with a diesel engine knows about diesel bugs. Marine Diesel Protect counteracts this by effectively combating bacteria, which has been tested by independent institutes with very good results. It also improves performance, reduces fuel consumption and keeps the entire fuel system clean thanks to its good cleaning properties.



Click here for confirmation of effectiveness.

Problem

Microbes infest the diesel fuel, form sediments and encourage rust to form, which clogs the fuel system and endangers the operational reliability.

Solution

Marine Diesel Protect and Marine Diesel Protect Shooter

- highly effective (1:1,000)
- decontaminates infested tank systems
- actively prevents bacteria formation
- verified effectiveness according to ASTM E 1259-10
- no restriction on sales under the REACH Regulation
- cleans and maintains the entire fuel system
- increases the cetane number for easier starting when recommissioning and maximum engine performance
- excellent aging protection



Up to 7 % biodiesel in the tank

Water in the tank

Bacteria form in the layer separating the water and the diesel

Bacteria "eats"/decomposes the diesel

Organic material clogs up the fuel system





Marine Super Diesel Additive

A combination of agents which cleans, protects and boosts the cetane number. The enhanced ignition performance improves the combustion of the fuel. Corrosion protection additives protect the entire fuel system reliably against the formation of rust and corrosion. Due to its outstanding cleaning properties, the components remain clean and deposits are prevented from forming.

Area of use

For all diesel engines in the marine sector, including pumped-jet and common rail injection systems. Fully compatible with all conventional diesel and biodiesel fuels. 500 ml is sufficient for 250 l of fuel. Filling the dosage chamber (25 ml) once is sufficient for 12.5 l of fuel.

Cont.	Packaging Unit	Part no.
500 ml	6	25004 ³⁵¹
500 ml	6	25005 ³⁹⁸
1 l	6	25006 ³⁵¹
1 l	6	25007 ³⁹⁸



Technical comment

With Marine Super Diesel Additive save up to 4 % fuel and at the same time reduce emissions.



Marine Fuel Stabiliser

Preserves and protects fuel against aging and oxidation. Prevents corrosion throughout the fuel system and ensures no problems arise when decommissioning the engine. Stabilizes gasoline with organic content.

For all 2-stroke and 4-stroke gasoline engines for storage and preservation. Also suitable for long-term use in seldom-used engines. 500 ml is sufficient for 100 l of fuel. Filling the dosage chamber (25 ml) once is sufficient for 5 l of fuel.

500 ml	6	25008 ³⁵¹
500 ml	6	25009 ³⁹⁸



Marine Fuel System Cleaner

Highly effective combination of cleaning and preserving additives for 2-stroke and 4-stroke gasoline engines. Removes deposits on injection valves, intake valves, spark plugs and in the combustion chamber and prevents new deposits from forming. For a smoother running engine Eliminates starting problems and rough engine running. Saves fuel and reduces pollutant emissions.

For all types of gasoline injection systems and carburetors. For adding to fuel tanks to deal with and prevent problems. 500 ml is sufficient for 250 l of fuel. Filling the dosage chamber (25 ml) once is sufficient for 12.5 l of fuel.

500 ml	6	25010 ³⁵¹
500 ml	6	25011 ³⁹⁸



Steel finger test

A steel test body is immersed in a mixture of water and white spirit with no additives for a period of 24 hours in accordance with DIN ISO standards. A second is immersed in a mixture of water and white spirit with additives. The corrosion is visible by the end of the test period.





Lubricants

For a long engine and gearbox life: our quality lubricants

As a lubricant specialist with over 60 years of experience, we also apply our know-how to the maritime sector. The result is high-quality engine and gear oils that have been specially developed to withstand the harsh operating conditions at sea without compromise. Maximum quality made in Germany for maximum protection and reliability. Naturally with the approvals and specifications of leading manufacturers as well as the lubricant standards according to the NMMA. In this way, we make a fundamental contribution so that you can always rely on your engine, spend less money on maintenance and repairs, experience fewer problems and always return safely to port.

The right lubricant for all boats

For the questions "Which motor oil?" or "Which gear oil?", use the LIQUI MOLY oil guide. Because approvals, specifications and viscosities such as 10W-30, 15W-40, 25W-40 etc. are not immediately understandable to everyone. No problem at all! With our oil guide, even without this existing knowledge you can find the right motor oil in just a few steps, as well as other suitable products from our full product line. Try it out now!



LIQUI MOLY online oil guide on www.liqui-moly.com



10W-30



Marine 4T Motor Oil 10W-30

High-performance low-friction motor oil based on synthetic technology. Provides increased corrosion and wear protection as well as quick oil penetration of the engine and turbocharger with additives specially adapted to maritime use. Exceeds leading engine manufacturers' requirements. Fulfills warranty cover provided by manufacturers who require NMMA FC-W Catalyst Compatible® approval.

Specifications and approvals: API SM, NMMA FC-W Catalyst Compatible®
LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required: Honda Marine, Mercury Marine, NMMA FC-W, Selva, Suzuki Marine, Tohatsu, Volvo Penta, Yamaha

Area of use

For all gasoline-driven inboard and outboard engines.

Cont.	Packaging Unit	Part no.
1 l	6	25022 ⁴⁹⁷
5 l	4	25023 ⁴⁹⁷
20 l	1	25024 ⁸
60 l	1	25025 ⁸
205 l	1	25074 ⁸



10W-40



Marine 4T Motor Oil 10W-40

High-performance low-friction motor oil based on synthetic technology with modern additive technology. Specially developed for maritime use. Provides excellent wear and corrosion protection and maximum engine cleanliness. Meets leading engine manufacturers' requirements. Tested for use with catalytic converters and turbochargers.

Specifications and approvals: ACEA A3/B4/E7, API SL/CI-4, Mack EO-N, Renault Trucks RLD-2, Volvo VDS-3

LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required: Caterpillar ECF-1-a/ECF-2, Cummins CES 20071/CES 20072/CES 20076/CES 20077/CES 20078, Detroit Diesel, Deutz DQC III-10, MAN M 3275-1, Mercury Marine, MTU Typ 2, Selva, Suzuki Marine, Tohatsu, Yamaha

For all gasoline and diesel engines in the marine sector. Especially suitable for high-load boat engines.

1 l	6	25012 ⁴⁹⁷
5 l	4	25013 ⁴⁹⁷
20 l	1	25060 ⁸
60 l	1	25014 ⁸
205 l	1	25075 ⁸



Marine PWC Oil 10W-40

High-performance motor oil based on synthetic technology. The special additive package ensures maximum engine performance and ideal wear protection. Guarantees the best possible lubrication, outstanding engine cleanliness and excellent friction values for wet clutches, even at high speeds. Satisfies or exceeds the requirements and specifications of the leading engine manufacturers.

Specifications and approvals: API SN PLUS, JASO MA2

LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required: Honda, Kawasaki, SeaDoo, Suzuki, Yamaha

Especially suitable for PWC (personal water craft) 4-stroke engines. Ideal for sporting applications. Outstandingly suited for engines with or without a wet clutch.

1 l	6	25076 ⁴⁹⁷
4 l	4	25077 ⁴⁹⁷

15W-40



Marine 4T Motor Oil 15W-40

High-performance motor oil based on selected base oils and modern additive technology, developed specially for the maritime requirements. Even in extreme conditions guarantees optimum lubrication and reliable protection against wear. Tested for use with catalytic converters and turbochargers.

Specifications and approvals: ACEA A3/B4/E7, API CI-4/SL, Mack EO-N, MAN M 3275-1, MTU Typ 2, Renault Trucks RLD-2, Volvo VDS-3

LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required: Caterpillar ECF-1-a/ECF-2, Cummins CES 20076/CES 20077/CES 20078, Detroit Diesel, Deutz DQC III-10

All-season oil for gasoline and diesel marine engines. Can be mixed with all commercially available motor oils.

1 l	6	25015 ⁴⁹⁷
5 l	4	25016 ⁴⁹⁷
20 l	1	25061 ⁸
60 l	1	25017 ⁸
205 l	1	25018 ⁸

25W-40



Marine 4T Motor Oil 25W-40

Mineral high-performance motor oil. Provides a stable lubricating film at all times with additives specially adapted to maritime use. Keeps engine seals, such as shaft sealing rings and valve stem seals flexible and minimizes oil consumption. Meets leading engine manufacturers' requirements. Fulfills warranty cover provided by manufacturers who require NMMA FC-W Catalyst Compatible® approval. Tested for use with catalytic converters and turbochargers.

Specifications and approvals: API SM, NMMA FC-W Catalyst Compatible®

LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required: Honda Marine, Mercury Marine, NMMA FC-W, Selva, Suzuki Marine, Tohatsu, Volvo Penta, Yamaha

Multigrade motor oil for gasoline-driven inboard and outboard engines. Can be mixed with all commercially available motor oils.

1 l	6	25026 ⁴⁹⁷
5 l	4	25027 ⁴⁹⁷
20 l	1	25028 ⁸
60 l	1	25029 ⁸
205 l	1	25057 ⁸

SAE 30

**Marine Single Grade SAE 30**

Single-grade mineral motor oil for gasoline and diesel engines with a naturally high viscosity index. It provides for a stable lubricating film even under extreme operating conditions. Its high alkaline reserve prevents corrosion even when diesel fuel with a high sulfur content is used. Lightly doped for use in classic engines as well. Prevents sludge formation and offers reliable protection against wear.

Specifications and approvals: ACEA E2, API SJ/CF/CF-4

LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required: MAN 270, Volvo VDS

Area of use

For universal use in gasoline and diesel engines and in transmissions for which the manufacturer specifies an SAE 30 mineral oil. Particularly suitable for older engines. Tested for compatibility with turbochargers.

Cont.	Packaging Unit	Part no.
1 l	6	25065 ⁴⁹⁷

ENGINE OILS 2-STROKE

**Marine 2T Motor Oil**

High-performance 2-stroke motor oil based on selected base oils and specially formulated additives. Ensures reliable lubrication, high operational reliability and outstanding protection against wear and corrosion.

Specifications and approvals: API TC, JASO FB, NMMA TC-W3®

For air and water-cooled 2-stroke marine engines with separate and premix lubrication systems. Self-mixing. Please note that the mixture ratio specified by the manufacturer must be observed.

250 ml	12	25086 ¹
1 l	6	25019 ⁴⁹⁷
5 l	4	25020 ⁴⁹⁷

TC-W³**Marine 2T DFI Motor Oil**

Semi-synthetic, ultra-high-performance 2-stroke motor oil specially developed for the marine sector. Specially developed to satisfy the complex requirements of the latest generation of direct injection engines. Ensures optimum lubrication even at high operating temperatures, guarantees maximum engine and piston cleanliness and low-fuming combustion.

Specifications and approvals: NMMA TC-W3®

LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required: Evinrude E-Tec Engines, ISO L-EGC/L-EGD, JASO FC/FD, Mercury DFI 2 stroke Engines

Recommended and tested for Evinrude E-Tec and Mercury DFI 2-stroke engines. Can be used in the mixing ratios 1:30, 1:50 or 1:100. Also suitable for all other 2-stroke and DFI 2-stroke engines. For separate and mixture lubrication.

1 l	6	25088 ⁴⁹⁷
5 l	4	25063 ⁴⁹⁷

TC-W³

GEAR OILS

**Marine ATF**

ATF oil specially developed for the marine sector based on synthetic technology and the latest additive technology. Offers increased corrosion protection and minimizes wear compared with conventional ATF oils. The high thermal stability and excellent protective properties give it optimum resistance to aging with maximum safety reserves. Compatible with all sealing materials.

Specifications and approvals: Dexron II D/II E/III G/III H/TASA (Typ A/Suffix A), ZF TE-ML 04D, ZF Freigabenummer ZF004927

LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required: Allison C4

For drives and transmissions such as reverse gears, power steering, control systems, trimming systems, hydrostatic transmission ratios and hydraulic and mechanical systems that require the use of an ATF oil. Cannot be used where GL4 or GL5 oils are specified.

1 l	6	25066 ³⁵¹
1 l	6	25067 ³⁹⁸

**Marine Fully Synthetic Gear Oil GL4/GL5 75W-90**

Fully synthetic high-performance gear oil with extremely high performance reserves. Ensures assemblies function perfectly, even under extreme operating conditions and when exposed to large temperature fluctuations. Meets the requirements for API GL4 and GL5 performance categories and corresponds to SAE 75W-90 viscosity grade.

Specifications and approvals: API GL4/5/MT-1

LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required: ZF TE-ML 02B/05A/12L/12N/16F/17B/19C/21A

For marine transmissions which require a top quality lubricant. Also suitable for drive wheels of different categories and reverse gears. Exceeds the highest test requirements of well-known transmission manufacturers.

250 ml	12	25036 ³⁵¹
250 ml	12	25037 ²⁶¹
1 l	6	25070 ³⁵¹
1 l	6	25071 ²⁶¹
20 l	1	25040 ⁸



Marine Gear Oil GL4/GL5 80W-90

High-performance gear oil based on selected base oils and with specially formulated additives for manual shift transmissions. Minimizes wear and noise. Outstanding corrosion protection and resistance to aging. Meets the requirements for API GL4 and GL5 performance categories and corresponds to SAE 80W-90 viscosity grade.

Specifications and approvals: API GL4/5/MT-1

Area of use

For outboard and inboard transmissions subject to a normal to high load. Also suitable for Z-drives.

Cont.	Packaging Unit	Part no.
250 ml	12	25030 ³⁵¹
250 ml	12	25031 ³⁹⁸
1 l	6	25068 ³⁵¹
1 l	6	25069 ³⁹⁸
20 l	1	25034 ⁸
60 l	1	25035 ⁸



Marine High Performance Gear Oil 85W-90

Special high-performance gear lube for the maritime sector. With unique package of additives that guarantees outstanding wear protection even in the case of contamination with water. Stable under extreme pressures even under high stresses and at high speeds. Offers outstanding corrosion protection and very good oxidation resistance.

 blue coloring

Meets the requirements of common transmission manufacturers in the marine sector. For Mercury outboard motors as of 75 hp output as well as MerCruiser Z-drives. Can be used as a replacement for a high-performance gear lube with viscosity SAE 90.

1 l	6	25078 ³⁵¹
1 l	6	25079 ³⁹⁸
20 l	1	25080 ⁸
60 l	1	25081 ⁸



Technical comment

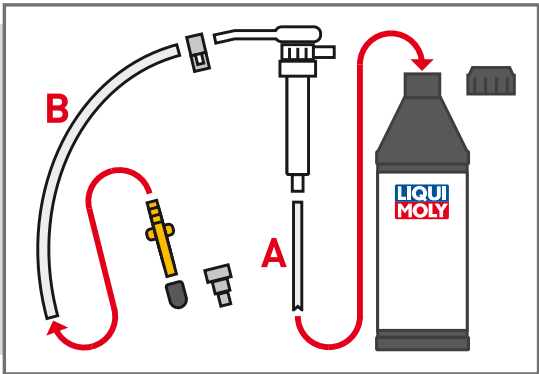
The perfect alternative for the original prescribed High-Performance Gear Lube. Recommended for Mercury outboard motors from 75 hp as well as MerCruiser Z-drives. Optimum protection against wear and corrosion.



Hand pump

For filling transmissions and other units, see category „Accessories“.

1 piece, Part No. 29026



For specifications and manufacturers' approvals, see the oil guide or technical data sheet. Comply with the vehicle or aggregate manufacturer's instructions.



Maintenance & Service products

In order to ensure that your boat shines both visually and technically for as long as possible

Boats are subjected to the most varied, often extreme environmental influences due to salt water, wind, sun, bird droppings and much more. Our Marine assortment offers you an extensive portfolio of specially developed, useful care and service products that are compatible with the material, easy to use and biologically degradable. Of course in the familiar LIQUI MOLY top quality.





Marine Grease

Heavy-duty grease for many of the lubrication points in the maintenance of vessels. Reduces friction and wear. Extremely long-lasting lubrication properties. Excellent aging and shear stability, and resistant to hot and cold water. Water-repellent and totally impervious to saltwater. Meets the requirements of NATO Marine Specification G460. Resistant in wet environments and provides excellent sealing properties. Labeling according to DIN 51502. KPF2G-20.

Area of use

Versatile product for use on grease points across all marine needs. Can also be used for exterior components which are exposed to salty air and seawater.

Cont.	Packaging Unit	Part no.
250 g	12	25041 ³⁵¹
250 g	12	25042 ²⁶¹
400 g	12	25043 ³⁵¹
400 g	12	25044 ³⁹⁸



Marine Winch Grease

Synthetic high-performance grease with PTFE solid lubricants specially developed for all kinds of winching and hoisting applications. The solid lubricant provides the ultimate in wear protection and reduces friction. Resistant to seawater and saltwater with excellent adhesive properties. Does not contain resins or acids.

Ideally suited for winching and hoisting applications with non-ferrous metal pairings and plastic/metal pairings. Powerful adhesive properties and neutral in respect of harmful environmental factors.

100 g	6	25045 ³⁵¹
100 g	6	25046 ³⁹⁸



Technical comment

Compared to conventional greases, Marine Winch Grease is a special development which has been especially adapted to extreme loads and fluctuating weather conditions. The PTFE solid lubricant it contains additionally reduces friction and wear.



MAINTENANCE PRODUCTS



Marine Anti-Limescale

Aqueous solution with inorganic acid. Removes all limescale deposits while protecting the material in the entire external cooling circuit and protects against corrosion.

For external cooling water systems on all boat engines including heat exchanger. Compatible with all materials used there. Not suitable for drinking water or fresh water supply.

5 l	1	25047 ⁴⁵¹
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Marine Universal Cleaner K

Low-foaming, biodegradable boat cleaner with outstanding cleaning performance. Dissolves even stubborn accumulated dirt such as dark drain tracks after lengthy storage, bird droppings, abrasion marks from shoes and dirt caused by fenders. Very economical thanks to efficient concentration for use. Biodegradable according to the Detergent and Cleaning Agent Law (Germany).

Universal special cleaner for routine cleaning or extremely dirty boats. Suitable for many different materials such as coated and uncoated plastics, GFRP and gel-coats as well as fabric soft tops, brass, aluminum, stainless steel, chrome, rubber and painted or sealed wood.

1 l	6	25072 ³⁵¹
1 l	6	25073 ³⁹⁸



Marine Universal-Cleaner

Specially developed for gently cleaning, maintaining and protecting vessels. Biodegradable according to the Detergent and Cleaning Agent Law (Germany).

Especially for cleaning and removing soiling on boats.

1 l	6	25049 ³⁵¹
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Marine Multi-Spray

Specifically designed for marine purposes to protect and preserve. Keeps moving parts moving and protects against corrosion and oxidation. Drives out moisture and protects the vessel's entire electrical system. Frees up bolts which have rusted solid and reduces squeaking noises. Neutral acting on plastics, paints, metals and wood.

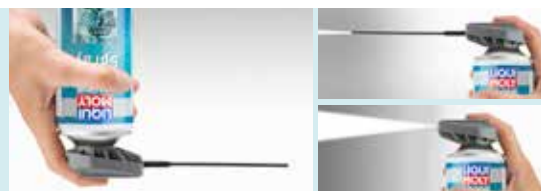
Versatile product for use as a multi-purpose spray. For all maintenance and service work.

400 ml	6	25051 ⁴⁸⁹
400 ml	6	25052 ³⁹⁸



Technical comment

- small spray pipe for precise spraying
- integrated nozzle for extensive application
- sprays overhead
- comfortable hand position





Marine Storage Fogging Oil

Long-term protection against corrosion on the surfaces of the combustion chamber such as cylinder walls, piston crowns and piston rings. Ensures smooth restarting after shutdown.

Area of use

For the reliable long-term preservation of all 2-stroke and 4-stroke gasoline and diesel engines on boats and ships as well as assembly units and pumps.

Cont.	Packaging Unit	Part no.
300 ml	6	25032 ³⁵¹
300 ml	6	25033 ²⁶¹



Marine Gloss Spray Wax

Water-repellent, saltwater and UV-resistant wax with excellent cleaning properties that leave an outstanding shine. Quickly and easily removes light soiling and greasy contaminants without leaving scratches. The protective layer left behind smoothes out scratches and protects the paint from the weather.

An outstanding product for quickly sprucing up paintwork. Optimum sealing properties on paintwork (e.g. GFRP and gel-coat). Also suitable for imitation leather and chrome elements.

400 ml	12	25053 ⁴⁸⁹
400 ml	12	25054 ²⁶¹



Microfiber Cloth

Microfiber cloth for cleaning all surfaces without using chemicals.

For cleaning work in trade, industry and the household.

1 Piece	10	1651
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Polishing Microfiber Cloth

High-quality, long-fiber, particularly fluffy microfiber cloth for lint-free polishing out and wiping off of care products and polishing residues. Reliably absorbs wax and polish residues and ensures a brilliant deep sheen without streaks, smudges or cloudiness. Borderless due to a special weaving process to avoid scratches on sensitive surfaces. Washable and therefore extremely long-lasting.

For polishing out and wiping off care products and polishing residues on all sensitive surfaces. Also very well suited as a drying aid after washing the vehicle.

1 Piece	6	20649
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RADIATOR ANTIFREEZE



Marine Antifreeze

Combination of active agents based on a monopropylene glycol/water mixture. Offers excellent frost protection during the overwintering of pipes. Allows safe wintering in a coordinated mixing ratio with water, thus making it unnecessary to empty the lines completely. Protects against corrosion. Biodegradable and environmentally friendly.

For all external cooling water systems of the boat engine and the toilet system (wastewater system). Radiator antifreeze compatible with all materials. Not suitable for drinking water or fresh water supply!

5 l	4	25082 ⁴⁵¹
20 l	1	25083 ⁴⁵¹
60 l	1	25084 ⁸
205 l	1	25085 ⁸



Technical comment

Biodegradable winterization protection for the external cooling system. Is environmentally friendly and protects against corrosion and frost damage. In combination with Marine Anti-Limescale for pre-cleaning, the optimal solution in terms of winterizing and decommissioning of the boat.



Marine Antifreeze Ready Mix

Ready-to-use mixture based on a monopropylene glycol/water mixture. Offers excellent frost protection during the overwintering of pipes. Protects against corrosion. Biodegradable and environmentally friendly.

For all external cooling water systems of the boat engine and the toilet system (wastewater system). Radiator antifreeze compatible with all materials. Not suitable for drinking water or fresh water supply!

1000 l Cont.	1	25087 ⁸
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Accessories

Everything for the application. From one single source: our accessories

To ensure that you can make the best possible use of our high-quality products, we also provide you with the perfect accessories. Benefit from our tailor-made practical solutions for all aspects of your boat service – whether in the shipyard or for private use.

		Area of use	Cont.	Packaging Unit	Part no.
	Oil Cabinet for 20 liter and 60 liter LIQUI MOLY container consisting of 8 x 20 liter canister + 2 x 60 liter drum or 12 x 20 liter canister (as desired) <ul style="list-style-type: none"> • 3 shelves • Dimensions: 2,100 (H) x 950 (W) x 550 (D) mm • Weight: 118 kg • Color: Body RAL 7016 - Doors 9006 	Oil cabinet with clearly arranged and clean storage of oil specialties with integral drip pan (lockable).	1 Piece	1	29011 ⁸
	Gear oil cabinet for 20 liter and 1 Liter LIQUI MOLY container Consisting of 3 x 20-liter canisters and 3 x 6-packaging units of 1 liter gear oil bottles (as desired) <ul style="list-style-type: none"> • Dimensions: 950 (H) x 630 (W) x 550 (D) mm • Weight: 52 kg • Color: Body RAL 7016 - Doors 9006 	Oil cabinet with clearly arranged and clean storage of gear oils with integral drip pan.	1 Piece	1	29035 ⁸
	Sticker oil cabinet Marine Sticker for oil cabinet (part no. 7993 resp. 29035).		1 Piece	30	50690
	Oil Drip Pan For 2 drums up to 205 liters <ul style="list-style-type: none"> • Wastewater type approval • Dimensions: 1,200 x 800 x 360 mm (L x W x H) • Weight: 76 kg 	For environmentally friendly storage of drums.	1 Piece	1	7812
	Hand Pump - plastic pump incl. universal hose and adapter - adapter for metric thread and imperial screw joints - for all 1 l containers from LIQUI MOLY - for 0.5 l and 5 l containers from LIQUI MOLY with SK 38 thread	For filling transmissions and other units such as outboard motors, lawnmowers, emergency power units, riding mowers, snow blowers or motorcycle transmissions.	1 Piece	1	29026
	Oil Change Canister <ul style="list-style-type: none"> • Capacity 10 l • Separate venting screw • Suitable for passenger cars and motorcycles Dimensions: 57 x 32 x 13 cm	For environmentally friendly do-it-yourself oil change without lifting platform.	1 Piece	4	7055
	Grease Gun for Cartridges Grease gun for grease dosing from 400 g grease cartridges.	Device for grease application in the workshop and industry.	1 Piece	1	5310
	Reinforced hose with gripper coupling Suitable for use with a manually-operated lever grease guns (part-no. 5310). <ul style="list-style-type: none"> • 300 mm long • Ø 13 mm, especially flexible • 4-jaw professional hydraulic coupler • 1,600 bar burst pressure – high working safety • 2-layer hose with markings • Safety tested in compliance with DIN 1283 • Fast accessory changing – no unscrewing necessary 	For flexible grease dosing using manually-operated lever grease guns in workshops and industry.	1 Piece	1	5311



Advertising material & Sales promotion

Fly the flag with LIQUI MOLY: our advertising material

LIQUI MOLY is a popular, in-demand brand worldwide. Take advantage of our popularity as a crowd puller for your company and secure additional sales opportunities. You can request any advertising material shown here from the Export Area Manager responsible for your company. It can be made quickly available as a rule. We also offer individual external signage tailored to your company and your existing appearance.



Topper Futura-Plastic-Rack Marine, Part No. 5876

Futura-Plastic-Rack, empty
60 x 160 x 40 cm,
Part No. 9989

Side sections for Futura-Plastic-Rack (2 pieces),
Part No. 50439



Counter Display LIQUI MOLY,
empty, Part No. 9965

Topper Counter Display
Marine, Part No. 50404



Sticker Marine-Logo,
60 x 50 mm,
Part No. 50217



**MOTOR OILS
ADDITIVES
BOAT CARE**

Sticker Marine-Logo + Slogan,
160 x 50 mm,
Part No. 50219



Advertising Board Marine,
500 x 500 mm,
Part No. 50380



Oil Change Tag Marine,
Part No. 50460



Beach flag Marine, 300 cm,
Part No. 51996



Flag Marine,
150 x 360 cm,
Part No. 51989



Beach flag base,
Part No. 50229



Banner Marine, 400 x 100 cm,
Part No. 51993



Catalog Marine,
Part No. 52055



Key chain canister,
Part No. 50202



Shelf strip, Marine, self-adhesive, 125 cm,
Part No. 50641

All you should know about lubricants:

Lubricant Glossary

Boat motors and water – not always an ideal combination. Increased air humidity and a saline environment promote corrosion and the formation of rust, even inside the motor. Another problem: Seasonally irregular use means longer idle times. When the units are then used, this usually takes place with a constant medium load and high rotational speed. The service life primarily depends upon the base oil used, the additive package and the viscosity of the motor oil. With LIQUI MOLY products you can contribute to keeping motor wear to a minimum.

Advantages of synthetic engine oils:

- Easier starting, better flow properties at low temperatures
- Superior wear protection behavior
- Greater stability at high temperatures
- Lower fuel consumption
- Lower oil consumption
- Less malfunctions

What do the individual figures on oil containers mean?

Viscosity is the best known variable according to which lubricating oils are classified. It expresses the degree of internal friction of an oil as it flows. When an oil is cold, its internal friction is high (high viscosity). The warmer the oil becomes, the lower its internal friction (low viscosity). The change in viscosity along with the change in temperature may vary from one grade of oil to the next; this is denoted by the viscosity index (VI), a non-dimensional numerical value. The higher the VI, the lower the change in viscosity as the temperature rises. As a rule, mineral oils have a VI of 90 – 100, hydrocrack oils a VI of 120 – 140, and synthetic oils a VI of 140 – 160.

SAE Categories

Engine and transmission oils are described by means of SAE categories (SAE = Society of Automotive Engineers), which are used as a form of viscosity designation. Two series of designations are used. The letter “W” stands for Winter. Figures such as 0W, 5W, 10W, 15W, 20W, and 25W for engine oils, and 70W, 75W, 80W, and 85W for transmission oils describe a specified flow behavior based on the maximum low-temperature viscosity, the maximum limit point temperature, and the minimum viscosity at 100 °C. The second figure after the “W”, such as 20, 30, 40, 50, 60 for engine oils, and 80, 85, 90, 140 for transmission oils denotes the viscosity of engine and transmission oils at a temperature of 100 °C. As these temperatures do not adequately reflect the conditions in which engine oils are used, the high temperature viscosity HTHS, (high temperature high shear) at 150 °C at high shear and high engine speed is calculated. The purpose of determining the limit values of HTHS is that multiple oils with VI improvers likewise assure the necessary

degree of lubricating reliability at high oil temperatures and high engine speeds.

Performance categories

There are numerous test specifications and testing methods for determining the performance of engine oils in realistic test runs. Various engines are used for test purposes. The US classifications of the API (American Petroleum Institute), the European specifications of the ACEA committee (Association des Constructeurs Européens d'Automobiles) and the specifications of the individual engine manufacturers are in common use worldwide. The NMMA (National Marine Manufacturers Association) also plays an important role in the marine sector.

ACEA

The ACEA specifications describe the minimum requirements for present-day, ultramodern engine oils for motor vehicles; these are the toughest in the world. The ACEA committee comprises European vehicle manufacturers, the European Association of Lubricant Manufacturers, additive manufacturers and test developers.

Engine oils are divided into four performance categories in this case:

ACEA A = for spark-ignition or gasoline engines

ACEA B = for diesel engines in passenger cars and light commercial vehicles

ACEA C = Gasoline Engines and Diesel Engines with exhaust gas aftertreatment system (three-way catalysts or diesel particulate filters)

ACEA E = for diesel engines in heavy commercial vehicles

The letters “A”, “B”, “C” or “E” are then followed by a digit, e.g. 1, 2, 3, 4, 5, 6, 7, 9, which serves as an indication of the oil's performance. It is not necessarily the case that the higher the digit, the higher the quality. In addition, the digit indicating the performance level for the oil industry is followed by the year of introduction and possibly by the issue reference.

API

The "American Petroleum Institute" divides engine oils into two performance categories: the classification for gasoline or spark-ignition engines denoted by the letter "S" (Service), and the classification for diesel engines denoted by the letter "C" (Commercial). A further letter, from an ascending alphabetical sequence, is then appended to the initial "S" or "C" to indicate the performance level. The highest classification currently in use for spark-ignition engines is API SP. In the case of diesel engines, API CK-4 represents the highest performance level.

The currently valid performance categories:

API SP, SN, SN PLUS, SM, SL, SJ;

API CK-4, CJ-4, CI-4, CH-4

API-Service Categories

American Petroleum Institute www.api.org/eolcs

Gasoline Engines

Category S*	For engines from/to
SP	2020 >
SN ³⁾	> 2020 >
SM	> 2010
SL	> 2004
SJ	> 2001

Diesel Engines ⁵⁾

Category C*	Introduced
CK-4	2017 >
CJ-4	2010 >
CI-4 ¹⁾	2002 ⁴⁾ >
CH-4	1998 >

Category F*	For engines from
FA-4 ²⁾	2017

1) with CI-4 Plus

2) not interchangeable or backward compatible with CK-/CJ-/CI-/CH-4 (at C Categories Sulfur-Content in Fuel observe)

3) possible with **SN PLUS** (for LSPI-engines) and **RC** (Resource Conserving)

4) 2002 introduced to meet the 2004 emission standards

5) Observe the specifications for the sulfur content in the fuel

*** Higher categories include lower categories!**

Categories SA:::SH and CD:::CG-4 obsolete

Source: *trans aktuell* SPEZIAL 27 / DEKRA BETRIEBSSTOFF-LISTE 2021



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With best regards