

GAME-CHANGING SOLUTIONS FOR THE MARINE INDUSTRY



A&S
INTERNATIONAL



WIRE ROPE
CLEANING
& LUBRICATION



INCREASED
FUEL
EFFICIENCIES



QUALITY
MAINTENANCE
CHEMICALS



OIL SPILL
& WASTE
MANAGEMENT



INSTANT
LIVE LEAK
PIPELINE REPAIR

Specialist Products for Maritime : **Committed to Sustainability**

“10/10. To make any part of our job more efficient is a bonus. The Viper Mini certainly ticks all the boxes.”

Mike Roberts – Operations Manager – OM Heavy Lift



WIRE ROPE LUBRICATORS

Fast, effective and the most environmentally responsible method for cleaning and lubrication of wire ropes

Increase wire rope life by up to **300%**

Reduce labour required to lubricate wire ropes by up to **90%**

Viper Wire Rope Lubricator

Viper is the #1 world leading product in wire rope lubrication, delivering significant benefits extensively to the marine industry as well as mining, oil & gas, lifting/construction, bridges and anywhere that wire rope maintenance is critical.

The Viper WRL range of products provide fast and effective cleaning and lubricating in one simple process. There are three size options, enabling wire ropes from 6mm to 165mm in diameter to be greased at speeds up to 2,000 meters per hour.

Huge reductions in lube consumption, less pollution, significant extension in wire rope life and improved health and safety, employee wellbeing. Significant financial benefits.



Financial benefits of using the VIPER WRL

- Increases the life of wire rope assets by up to 300% versus manual lubrication methods
- Reduces re-lubrication times of wire ropes from several days to several hours compared to manual lubrication

Environmental/H&S benefits of Viper WRL

- All grease applied goes on the wire rope
- Does not leak grease, meaning no mess
- No wasted lubricant
- Lightweight allows for safe & efficient application
- No direct human contact with the lubricant
- Wire ropes can be lubricated from a safe distance

APPLICATIONS

- Winches
- Bulk Carrier Cranes
- Underwater Offshore Wire Ropes
- Mooring Ropes & ROV Cables



Viper WRL

“ The results of the tests carried out after the introduction of SulnoxEco onboard have proven to be very promising. We observed measurable fuel savings, cleaner engines, and reduced emissions. ”

ROBERTO FAZI,
Senior Vice President of Marine Operations, Crystal Cruises

“ It's a self-funding solution that delivers tangible fuel savings, cleaner engines, and supports our broader efficiency and sustainability goals. ”

SACHIN SAHARAWAT
Technical Director, Eastern Pacific Shipping



sulnox



Sulnox helps industry and transport fleets cut fuel costs and emissions right now - with no engine changes or capital expenditure.

Why Industries Are Adopting Sulnox Eco

Sulnox Eco fuel conditioner is an organic, drop-in solution for more complete combustion and improved engine function – applicable to all liquid hydrocarbon fuels.

Fuel Savings: 5% average for marine + 8% average savings for land applications, >300% ROI in weeks.

Lower Emissions: c.90% particulate reduction, plus lower CO₂, NOx and SOx.

Protect Engines: c.17% added lubricity + decarbonisation benefits.

Simple Application: Just add to existing fuel

How It Works - Four Mechanisms

- 1. Emulsification:** Disperses free water into microscopic droplets within the fuel
- 2. Secondary Atomisation:** Fragments larger fuel droplets through micro-explosions to increase surface area and deliver more complete combustion
- 3. Detergency:** Cleans and decarbonises vital engine components for improved operation
- 4. Lubricity:** Reduces friction dramatically to lower wear and maintenance costs



Real World Results Across Fleets

From trucks and trains to loaders and container ships, Sulnox Eco works with any liquid hydrocarbon fuel in any combustion engine. Typical savings...

8% Freight & Logistics

5% Marine

6% Construction & Mining Equipment

13% Generators

6% Rail (Locos, Tampers)

8% Coaches & Buses



Sulnox

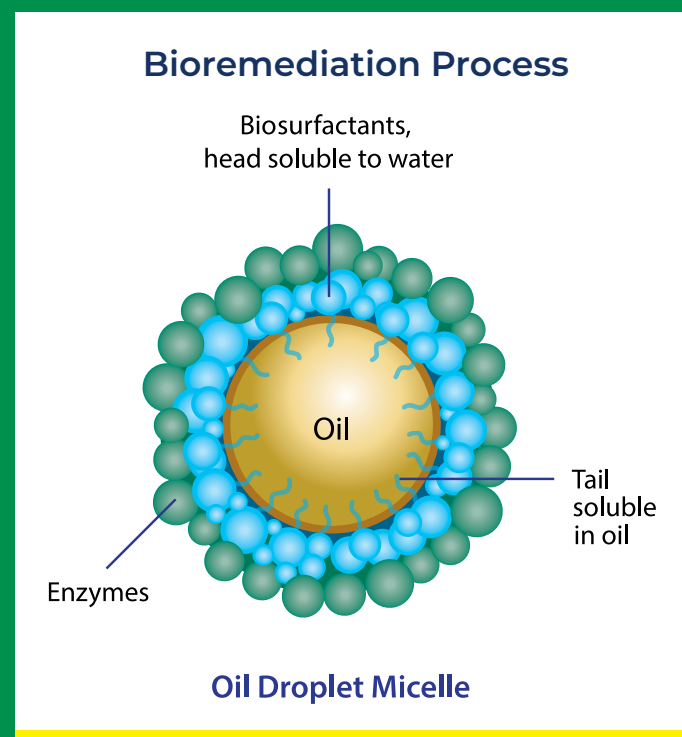


See the savings your fleet could make...
sulnoxgroup.com/savings-calculator/



“We are delighted with OSEI for its ease of use and successful applications as the main treatment of the everyday spills around our beaches and harbours.”

Eoin Miller - OIC Marine Services, Orkney Isles



The most environmentally safe and cost effective treatment for oil spills, hazardous waste, and contamination in the maritime environment.

DRASTIC reduction in clean up costs
PERMANENTLY eliminate hazardous waste problems
NO secondary clean-up required

Oil Spill Eater II (OSE II) is the world's most effective Hydrocarbon Bioremediation Product.

OSE II is an environmentally safe clean-up method because it uses nature's own bioremediation process to effectively eliminate hazardous materials. OSE II is not a bacteria (bug), fertilizer or dispersant product. It is a biological enzyme that converts the waste into a natural food source for the native bacteria found in the environment. The end result is only CO₂ and water. OSE II will reduce clean-up costs and permanently eliminate the hazardous waste problem with no secondary clean-up required.



Benefits of using Oil Spill Eater II (OSE II)

- A one stop contamination treatment with no secondary clean-up required
- Non-toxic and completely environmentally friendly and biodegradable
- Works with natural occurring bacteria at the site of contamination without introducing foreign bacteria to the environment
- Will not harm flora or fauna during use

Approved by

United States Environmental Protection Agency

And the only bioremediation solution approved by the

UK Marine Management Organisation



OSE II



“ The speed and ease of use of SylWrap enabled the repair to be completed before the tide returned to the salt marshes, the pipe had been successfully sealed ahead of being covered with mud and seawater again. ”

Maintenance Management Team - UK Chemical Plant



Used globally in the marine sector, SylWrap is the go-to product for all types of pipe and pipeline permanent repair.



Permanently fix a leaking pipe in under **30 minutes!**

Used on **ALL** types of pipe, **UP TO 600MM**

WRAS approved, use with potable water



Universal pipe repair, even when pressure can't be stopped.

Sylwrap is a water activated composite system for permanent leak repairs - no need to replace broken or damaged pipes. Proven and cost-effective pipe and leak repair systems that have been independently tested to industry accepted standards.

A complete range of repair kits and solutions for every eventuality, they are effective on pipes of all materials and sizes and most of the products have WRAS approval, meaning that they have been certified to British standards as safe to use with drinking water.

Repairs are pressure resistant to 30bar, temperature resistant to 200°C and have high chemical resistance.



Benefits of using Sylmasta products

- Fast and permanent repair for leaking pipes
- Use on pipes that are still under pressure – up to 30 Bar
- No shutdown of equipment required so repair can be completed while a vessel is still underway

Environmental benefits of SulNOx

- Reduced wastage of damaged pipes
- Reduce contamination caused by leakages, by reducing time to stop the leak



Sylmasta



“ We have never changed our oil and even more we have never had a trip due to a lubrication related issue thanks to Fluitec! ”

Mark Joy - Supervisor, Salt River Project



Scan the QR code to view the Salt River Project Case Study



Solving deposit issues and meeting sustainability targets - enhanced lubricant performance and elimination of mechanical issues due to varnish.

SUSTAINABLE treatments for marine lubricants
RESTORE fluid life and **PREVENT** further deterioration
EXTENDS equipment life



DECON

- **Outstanding Solubility** – Features optimal solubility to dissolve oil deposits
- **Exceptional Deposit Control** – Prevents deposits from forming in the long run, unlike other chemical solutions for lubrication systems
- **No Impact on Oil Performance** – Produces no adverse impact on the oil's demulsibility, air release, foam, etc.
- **Better Seal Compatibility** – Offers better seal compatibility than mineral oil and handles changes in mass, volume, strength, and modulus better

VITA ESP

- **Contamination control system for varnish** mitigation and particulate removal in rotating equipment
- **Contamination control system for acid** scavenging and all degradation products in Phosphate Ester fluid applications
- **Uses easy-to-replace element inserts** designed for small to medium-sized reservoirs.
- **Lower cost of ownership** with more efficient replacement elements, save money on shipping and more environmentally friendly.
- **Versatile:** Can use ESP, ENDURE and Depth Filters



MEMBRANE PATCH COLORIMETRY (MPC)

A quick, cost-effective way of assessing your oil's varnish potential. The Colour instrument allows real time on- site determination of the condition of your lubricant.

Data results are captured and stored in text and audio captions for quick analysis. The MPC Colour packs tremendous science into a convenient and extremely accurate package.



DECON AW - Replenish Depleted anti-wear additives

- **Prolongs the life** of hydraulic fluids
- **Significantly reduces** the oil's varnish potential (as measured by MPC, UC, and Particle Counts)
- **Minimises sludge**, varnish, and other deposits from your system
- **Dissolves varnish** from machine internals
- **Improves** the deposit control performance of in-service hydraulic oils
- **Extends the life of hydraulic fluids**
- **Reduces maintenance costs** and downtime associated with frequent oil changes
- **Minimises** risky and costly flushes
- **Reduces carbon emissions** by cutting demand
- **Improves the performance** of servo-valves
- **Increases the efficiency** of heat exchangers
- **Provides long-term protection** against varnish, sludge, and deposits

DECON AO - Replenish depleted Antioxidants

- **Superior seal compatibility** compared to mineral oil (change of mass, change of volume, change of modulus, change of strength)
- **Excellent oxidation stability** and deposit control characteristics
- **No adverse impact** on the in-service oil's performance (i.e. air release, demulsibility, etc.)
- **Rapid reduction** of the oil's varnish potential as measured by MPC, UC and Particle Counts.



APPROVED BY OEM'S including Siemens Energy, MAN Everllence & SOLAR Turbines

Fluitem



“The industry has shifted back to a pre-pandemic focus with environmental and climate change issues topping the list of concerns.”

Global Maritime Forum



Quality maintenance chemicals used throughout the maritime sector, specifically designed to help protect the oceans, equipment and personnel.

Safe for the environment **BIODEGRADABLE** products
NON-TOXIC, SOLVENT FREE degreaser/cleaners
Solutions for waterproofing and **RUST PROTECTION**



MC626 MAK WELDING Anti-Spatter Liquid

A silicone-free anti-spatter liquid that is also biodegradable and non-toxic.

Suitable for both manual and automatic robotic welding applications it is non-flammable and does not produce harmful fumes during welding as it only contains natural and ecological substances.

Ideal for ship repair yards & on-board welding jobs.



MC828 MAK MOISTURE EXPEL Anti-Corrosion Protection

A professional aerosol product that effectively protects electrical & electronic components on marine vessels and port facilities.

It provides protection against moisture, corrosion & humidity for a wide variety of maritime applications including electric motors, wiring, connectors, junction boxes, switches, tools & mechanical parts.

MC606 MAK D-SCALEX Descaler & Restoration Fluid

An extremely effective & cost efficient acid based cleaner designed to remove calcium deposits, limescale & rust from all acid-resistant surfaces.

Very economical in use – can be mixed with water for most applications, does not change its characteristics, even under temperature variations and works quickly.

At a dilution of 1:5 & above it perfectly breaks the bond between the surface and calcium or lime scale deposits on ceramic tiles or other sanitary products.

An ideal solution for maritime companies for effectively descaling surfaces, pipes & radiators as well as removal of stains, oxidation, rust and corrosion.



MC929 MAK FOX - Multi-Purpose Degreaser/Cleaner

A unique multi-purpose, non-flammable degreaser that does not contain any hazardous compounds such as hydroxide, phosphate or any hydrocarbons.

MAK FOX leaves no residue, is completely biodegradable as well as water-dilutable to 1:100 mix ratio.

Totally safe for operators, the environment and has impressive wetting capabilities that make it suitable for all parts of the maritime sector.

The product has a gel form and can also be used as a detergent in cleaning machines, tunnel washers, hand sprayers and high-pressure cleaners for a wide range of surfaces/materials in the shipping sector including metal, glass, plastic and wood.



MC808 MAK CLEANEX Food/Industrial Degreaser & Cleaner

A unique biodegradable strong degreasing agent applied via aerosol (650 ml) which degreases and cleans in one step.

Ideal for use in all maritime operations and types of maintenance. It contains no hazardous substances such as Ketones & N-Hexanes and is NSF K1 registered.

MAK Cleanex is also certified according to IEC 156 and can therefore be used for cleaning on board electrical equipment that is not susceptible to solvents such as cleaning electric motors without disturbing the insulating varnish. Does not attack plastics, aluminium or rubber.

MakChem



“ This year, environmental issues are clearly top of mind for the marine industry, with decarbonization of shipping and new environmental regulation listed as the main concerns. ”

Kasper Søgaard -
Head of Institutional Strategy & Development -
Global Maritime Forum



Water resistant grease solutions for winch wire ropes, as well as specific management of ‘MRO’ requirements in the marine sector.

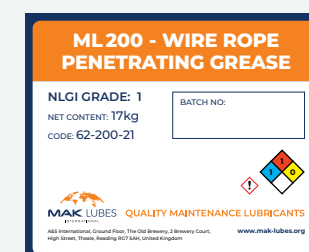
VESSEL GENERAL PERMIT (VGP) compliant lubricant*
Consistency **PREVENTS SLING-OFF** or dripping
EXTEND lube intervals and **REDUCE** lube consumption

ML253 ECOLOGY EAL WIRE ROPE GREASE

Specifically designed with BIODEGRADABLE, non-toxic natural and synthetic ester base oils and a special calcium thickener system to protect the environment. Meets the specifications required by the EPA's Vessel General Permit (VGP).

A tacky, stringy grease that offers excellent penetration and superior coating protection for wire ropes that are exposed to severe environments including salt water.

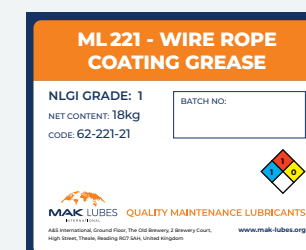
This proprietary technology provides a long lasting product with excellent water resistance, good E.P. properties and wear protection. The tacky adhesive NLGI Grade 1 grease will provide a water resistant coating around the wire rope protecting it from rust and corrosion. Will not drip, sling off or wash off wire ropes.



ML200 WIRE ROPE PENETRATING GREASE

Semi-fluid lubricant with excellent adhesion characteristics and water resistance.

Developed from a special blend base oil, additives and thickeners highly resistant to moisture. Ideal for the lubrication of wire ropes and chains that are exposed to severe conditions; its consistency allows fast penetration, protecting against wear, rust and corrosion.



ML221 WIRE ROPE COATING GREASE

Superior dual action lubricant, with excellent penetration and coating protection for wire ropes that are exposed to severe environments including water.

The proprietary technology provides a long lasting product with E.P. characteristics and water resistance. The tacky adhesive NLGI Grade 1 Grease provides a water resistant coating around wire ropes protecting against rust and corrosion. It will not drip, sling off or wash off wire ropes.

*Specific to ML253 Ecology EAL Wire Rope Grease

MakLubes



We sell and distribute products for the maritime sector that deliver performance change, bottom line financial benefits, AND WITH A MAJOR FOCUS ON SUSTAINABILITY.

How can we help you today?

Information about a specific product?

➔ Hello@aands-international.com

Understand how we can help you towards your zero emissions target?

➔ Angus@aands-international.com

Pricing?

➔ Shaun@aands-international.com

Find out about delivery elsewhere in the world?

➔ Jackie@aands-international.com

Place an order?

➔ Aurelie@aands-international.com

Arrange a meeting

➔ **T: 0118 930 4321**



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Specialist Products for Maritime : **Committed to Sustainability**