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ECO
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ECOREMOVER ®

ECOREMOVER® TECHNOLOGY

Greener fluid alternatives

Replacing solvents and chemicals



ECOREMOVER®

Made in Italy

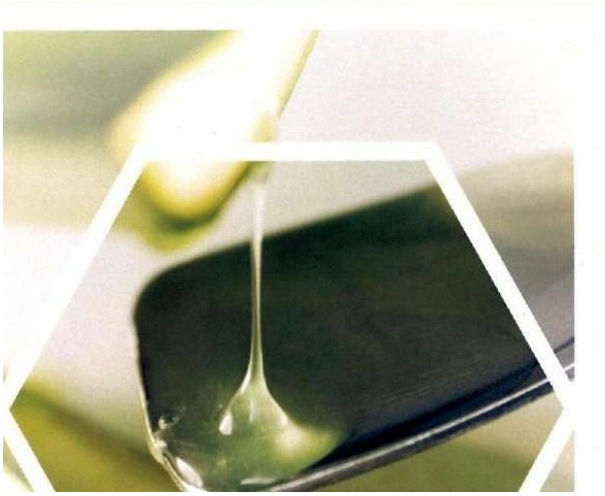
Environmental fluid technology

for cleaning and decontamination

A GREEN ALTERNATIVE FOR YOUR INDUSTRIAL INDUSTRIAL APPLICATIONS

A FULLY WATER-BASED, SAFE, NON-TOXIC AND BIODEGRADABLE FLUID, unique thanks to its special blend of non-toxic plant compounds and surfactants, all obtained from **renewable sources**

It is produced with innovative assembly techniques, without the use of solvents or chemicals.



- 100% raw materials from plant extracts, not classified as hazardous to health under EU Directive 67/548/EEC
- Rapidly and readily biodegradable and carbon neutral
- No ingredients hazardous to the environment
- VOC-free under EU Directive 1999/13/EC
- Free of enzymes, bacteria, acids, phosphates, phenols, formaldehyde, free caustic soda or potash, oils and preservatives

Innovative blending process

Plant extracts

Stabilising solution

Aqueous solution of plant-based stabilisers

Stabilising reaction

A specific concentration of stabilising solution acts as an emulsifier to blend immiscible substances



H_2O

Green surfactants

- Plant origin
- Readily biodegradable

Blending process

- A blend of plant extracts is introduced into the stabilising solution through a complex, irreversible blending process
- The plant extracts blend rapidly into the aqueous solution
- The final product behaves completely differently from the original ingredients

EcoRemover® Technology

EcoRemover® technology is ideal for replacing and reducing the overall use of solvents and other classified chemicals in a wide range of applications, such as: **de-oiling, degreasing, cleaning, degassing and decontamination**



Features

It is highly effective in cleaning processes and in removing a wide range of hazardous contaminants, such as:

- Crude oil, hydrocarbons, oils, greases, fuels
- Solvents such as xylene, toluene, benzene, phenol, ethylidene norbornene, carbon disulphide (CS2)
- Mineral, plant and animal residues
- Paint, ink, adhesive and glue residues

As organic deposits are liquefied, the formation of unpleasant odours is largely avoided.

It is classified as follows:

- **Rapidly and readily biodegradable**
- Non-toxic to aquatic organisms
- No signs of acute oral toxicity
- Non-irritating to eyes
- Non-irritating to skin
- Non-flammable
- Non-corrosive

The safety data sheet hazard rating (HMIS) is 0-0-0.

CERTIFIED QUALITY

All tests were performed according to OECD guidelines by a laboratory accredited by the competent ministry to issue the related certificates. A summary of the test results is available on request.

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Main physical data

Flash point: at 760 mm Hg: > 250 °C

Freezing point: < 3 °C

Boiling point: > 72 °C

Solubility in water: complete

Density: 1.0107 g/ml

pH: 6.0 ± 1.0

Appearance: liquid

Odour: characteristic

Risk phrases: none

Labelling: none

Symbols: none

Chemical properties

- Excellent solvent and release power, combined with high solubility and dispersing power
- Concentrated formula, high dilution rate
- Neutral pH
- Active on liquid, gaseous and solid substances
- Compatible with fresh and salt water
- Compatible with sanitising agents
- Suitable for high-temperature cleaning thanks to its non-flammable properties
- Compatible with acidic substances
- Combined with phosphoric acid (H3PO4), it is an effective substitute for hydrofluoric and nitric acid in metal surface treatment

ECOREMOVER®

Environmental fluid technology



ECOREMOVER® TECHNOLOGY

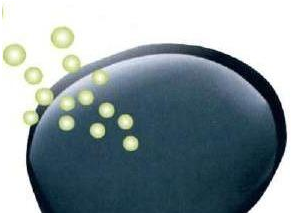
BREAKING DOWN MOLECULAR CHAINS

ECOREMOVER® is designed not only to physically remove residues, but also to break them down.

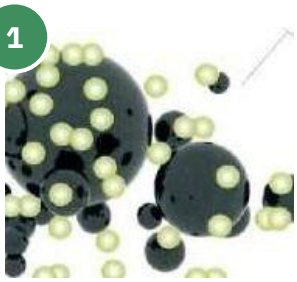
Thanks to its special blend of non-toxic raw materials, it reduces the surface tension of residue molecules, making it possible **to break complex molecular chains into smaller particles**, increasing their contact surface, accelerating biodegradation and making them easier to handle.

The combined action of the special plant extracts creates an aqueous solution that counters the typical adhesive power of residues, preventing them from sticking to surfaces and solving the usual problems caused by contaminants in cleaning and decontamination.

It allows microbial activity to accelerate biodegradation by increasing the residue surface and ensuring natural oxygen exchange. It shortens subsequent treatment times and allows a rapid return to biological balance after substances have been dispersed.



1



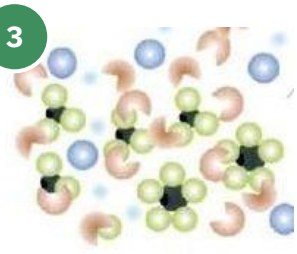
Lower surface tension of residue molecules and breakdown of molecular chains

2



Oxygen exchange becomes possible again as the pollutant surface increases

3



Accelerated degradation of the pollutant by microorganisms

By-products include water and oxygen

ECOREMOVER® technology has been designed to degrade rapidly into harmless products once its action is complete, without persisting in the environment.



USING ECOREMOVER OFFERS MANY BENEFITS BENEFITS

SAFE

- Unlike other products, it forms no toxic by-products during cleaning and decontamination
- All reactions with EcoRemover are non-exothermic and safe with organic and inorganic residues

EFFICIENT

- Eliminates the hidden and additional costs of environmental contamination, safety, precautions and handling, transport, storage and health
- Its neutral chemistry removes the need to adjust wastewater pH before discharge
- Its presence in wastewater after cleaning does not increase contamination and often makes disposal easier
- Reduces COD monitoring needs, minimising cleaning time during shutdowns

ENVIRONMENTALLY FRIENDLY

- The absence of hazardous ingredients or other environmentally harmful substances eliminates site contamination issues in case of accidental spills
- Carbon neutral
- No compounds contributing to global warming
- No ozone-depleting substances

PLANT-COMPATIBLE

- Compatible with all common metals, including aluminium and light alloys
- Does not adversely affect biological treatment
- Suitable for any type of circuit and plant

REPLACING SOLVENTS AND CHEMICALS

- It is a green alternative to a wide range of substances commonly found in industrial cleaning and decontamination products:
  - petroleum-derived and chlorinated solvents, such as acetone, benzene, toluene, xylenes
  - surfactants and aqueous detergents
  - cleaning emulsions
  - other classified products, such as sodium hydroxide and caustic potash
- Thanks to its compatibility with acids, it reduces the amount of acidic compounds needed in metal surface treatment

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ECOREMOVER® TECHNOLOGY

A VERSATILE SOLUTION FOR MANY APPLICATIONS

Protecting human and animal health and the environment is an integral integral part of how we do do business. Finding new new products the market market accepts, and bringing them to market quickly and cost-effectively, effectively, is central to our our activity.

Eurosicura Gruppo Srl has been developing plant-based fluids for many years, with the aim of providing highly qualified products and solutions that support both industrial development and the progress of “green chemistry”.

EcoRemover is designed to meet your evolving needs in a rapidly changing regulatory environment, without compromising on effectiveness or value.

Whether you are a formulator or an end user, **EcoRemover®** technology ensures the product can be handled and used safely throughout its life cycle, addressing environmental issues effectively and competitively while reducing treatment costs.

Oil & Gas

An unrivalled solution for cleaning, degassing and decontamination



Transport

Maintenance of ships, boats, aircraft, trains and trucks



Industry

Metal degreasing, surface preparation and component cleaning



Logistics areas

Container cleaning is an important step in food packaging operations



Road cleaning

Restoring safe conditions after accidental liquid spills, and urban sanitation



Environment

Soil remediation, wastewater treatment and oil spills



Food industry

Cleaning and sanitising of tanks, lines and processing equipment



Agri-food

Slaughterhouses, dairies, olive mills, cured-meat plants and sugar mills



Professional cleaning

Hotels, hospitality, schools, gyms, offices, conference halls



Household cleaning

Detergents, degreasers, laundry detergents, carpet stain removers, wet wipes





Oil & Gas

EcoRemover® Technology

INDUSTRIAL CLEANING, DEGASSING AND DECONTAMINATION

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AN UNRIVALLED SOLUTION

EcoRemover® has been designed to provide a complete solution for the cleaning and maintenance operations of oil companies, oilfield service companies and industrial maintenance contractors.

EcoRemover® is designed to meet your evolving needs in a rapidly changing regulatory environment, without compromising on effectiveness or value.



REPLACING SOLVENTS AND CHEMICALS

EcoRemover® is the responsible alternative, for the environment and for workers, to replace and reduce the overall use of petroleum-derived and other classified products used in cleaning, degassing and decontamination.

SAFE, EFFICIENT AND COST-EFFECTIVE

EcoRemover® ensures safe handling and use throughout its life cycle, eliminating the hidden and additional costs of safety, health, precautions, handling, transport and storage.

EcoRemover® helps maximise customer satisfaction and operational performance, addressing environmental issues effectively and competitively while also reducing treatment costs.

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SOLUTION

FOR OIL CLEANING AND DECONTAMINATION

- **Oil refineries**
- **Offshore platforms**
- **Storage facilities**
- **Petrochemical industries**
- **Service stations**
- **Ports and industrial plants**
- **Ships, boats, aircraft, trains and trucks**





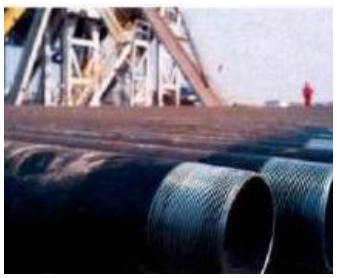

A GREEN TECHNOLOGY FOR MANY APPLICATIONS

- **Tank and pipeline cleaning and degassing**
- **Vapour suppression and odour control**
- **High-pressure cleaning**
- **Cleaning of tools, surfaces and industrial equipment**
- **Drilling system cleaning**
- **Accidental liquid spills**
- **Asphalt cleaning**

OFFSHORE



EcoRemover® is the water-based alternative to solvent and chemical “cutter stocks” that are less friendly to workers and the environment, speeding up cleaning and maintenance safely and responsibly.









EcoRemover® has the potential and function of a solvent, but cannot be considered one.

Handling, transport and storage

- EcoRemover can be transported and stored as non-dangerous goods
- The safety data sheet hazard rating is HMIS 0-0-0

Benefits

- EcoRemover® breaks oil down into very small fragments, neutralising the volatile hydrocarbon components and making them non-flammable and more easily biodegradable
- EcoRemover® is an excellent choice to contain accidental VOC emissions and prevent fires from hydrocarbon contamination on oil platforms and in flammable-liquid storage areas
- Compatible with salt water

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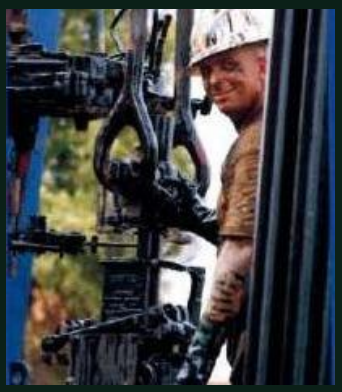
PLATFORMS

Solutions for oil contamination

EcoRemover® is designed to remove crude oil, heavy oils, waxes, greases and other hydrocarbon residues from accidental spills, and to maintain surfaces such as:

- industrial machinery, equipment and tools
- platform walkways and handrails
- pedestrian areas






The absence of hazardous ingredients or other environmentally harmful substances eliminates site contamination issues in case of accidental spills.



NON-TOXIC TO AQUATIC ORGANISMS

COMPLETE CLEANING AND MAINTENANCE

TANK CLEANING

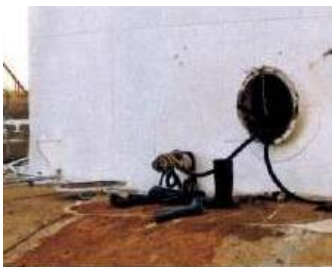


EcoRemover® technology is designed to reduce overall industrial VOC emissions, allowing work to be done in an environmentally safe way while ensuring worker safety.









EcoRemover® removes contaminants and reduces COD monitoring needs, minimising minimising cleaning time during shutdowns

A versatile solution

EcoRemover® can be used at several stages of the tank cleaning process:

- to convert sludge and hydrocarbon residues into a “pumpable” aqueous phase for removal
- to reduce vapours and VOCs, making operator access safer for maintenance, demolition or removal
- to separate hydrocarbons from the solids recovered during tank cleaning

It eliminates the typical adhesive power of contaminating hydrocarbons, so contaminated surfaces can be rinsed until clean and oil-free.

Suitable for eliminating VOC emissions from hydrocarbon-contaminated soil, for example when a tank’s contents have spilled onto the surrounding ground.

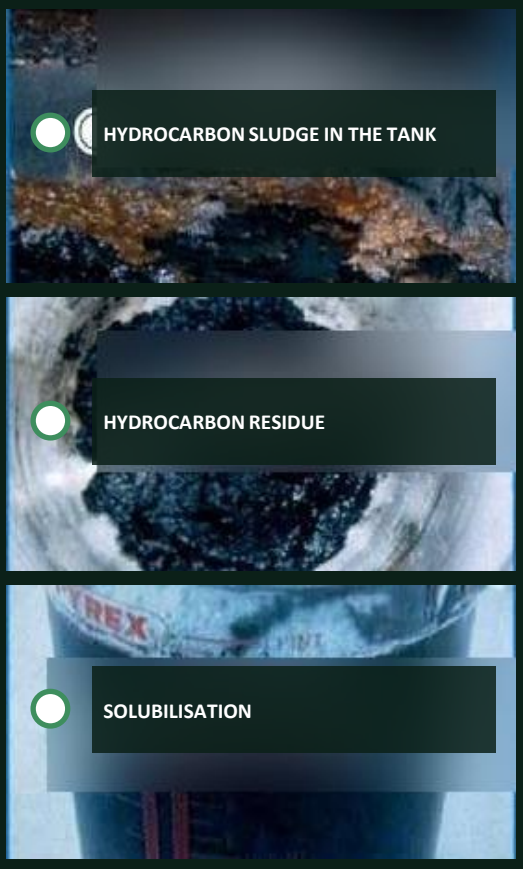
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DEGASSING

Many companies have tested and verified the effectiveness of EcoRemover in tank cleaning and degassing.

Using EcoRemover minimises the liabilities and regulatory obligations associated with hazardous solvents and chemicals.





Laboratory test images showing EcoRemover's effectiveness in dissolving hydrocarbon sludge

Benefits

- **EcoRemover®** drastically reduces the time needed to prepare equipment for entry, removing the safety and procedural issues of cleaning, degassing and environmental compliance
- **EcoRemover®** allows standard pressure washers to be used and work to be carried out without respirators, protective suits and extraction systems, where applicable
- **EcoRemover®** is active on a wide range of hazardous liquid, gaseous and solid contaminants, such as crude oil, hydrocarbons, fuel oils, solvents (xylene, toluene, benzene, etc.), phenol, ethylidene norbornene, carbon disulphide (CS2), etc.
- **EcoRemover®**, unlike other products, forms no toxic by-products during cleaning and decontamination.

SINGLE PASS



EcoRemover® technology can be applied as a circulating aqueous solution, flushed through pipelines, tanks, circuits and gas cylinders to reach GAS FREE status without further treatments or chemicals.







EcoRemover® turns cleaning and degassing into a single-pass application

Benefits

- Concentrated formula, high dilution rate
- All reactions with EcoRemover are safe
- Its neutral chemistry removes the need to adjust wastewater pH before discharge
- Its presence in wastewater after cleaning does not increase contamination and often makes disposal easier
- Does not adversely affect biological treatment
- Non-corrosive and compatible with all common metals, including aluminium and light alloys
- Suitable for any type of circuit and plant
- Suitable for high-temperature cleaning thanks to its non-flammable properties

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DECOMMISSIONING

During maintenance programmes at oil & gas facilities, international procedures require companies to fully decontaminate connecting pipelines, tanks and circuits.

EcoRemover removes all gas and hydrocarbon residues in a single application.







EcoRemover® has been chosen by many companies as an innovative way to increase safety and cut operating costs.



EcoRemover® eliminates explosive mixtures, so subsequent operations can be carried out in complete safety.

GAS-FREE APPROVED

MAINTENANCE SERVICE STATIONS



EcoRemover® technology is designed to treat oil contamination, from diesel to heavy fuel oil.

It can be used at service stations for routine maintenance and cleaning of equipment (nozzles, pumps, tanks, car washes, vehicle lifts, tyre compressors, etc.), for cleaning work areas and machinery, and for any need during periodic equipment checks. It quickly removes diesel and oil stains from asphalt and other contaminated surfaces such as blocks, paving, concrete, forecourts and workshop floors.

It is also particularly useful for cleaning:

- aircraft hangars
- airport runways
- large workshops
- road surfaces
- tunnels

Benefits

- EcoRemover neutralises hydrocarbons, reducing fire and explosion risks
- Does not erode or degrade asphalt and road surfaces
- EcoRemover forms no emulsions and is compatible with painted surfaces



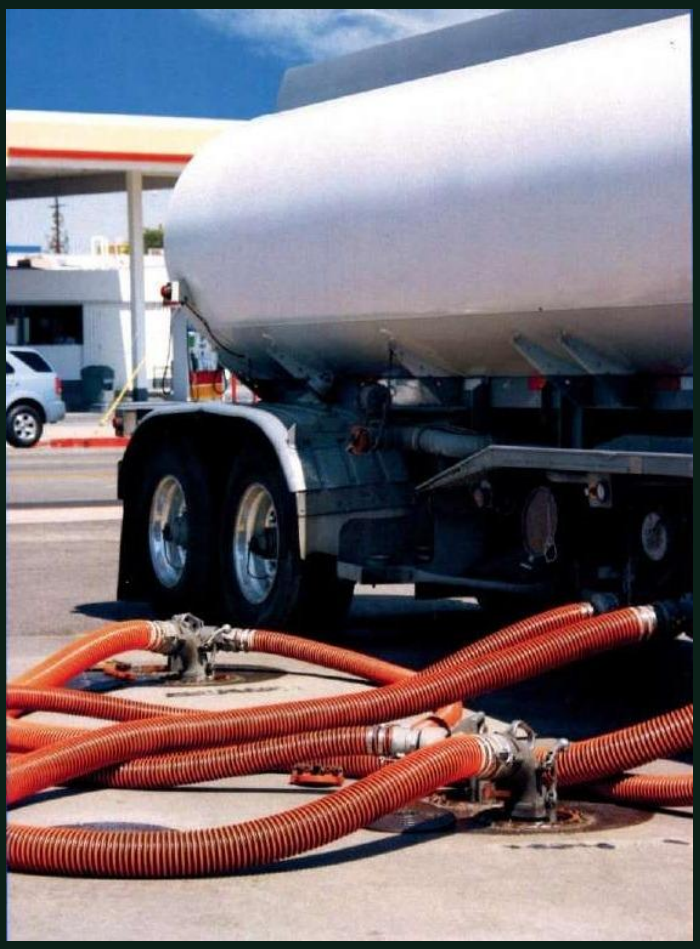


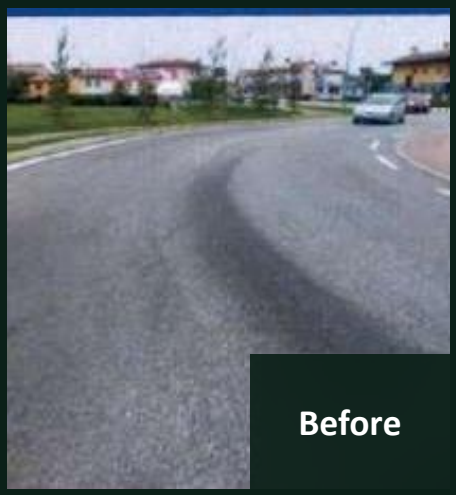
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ROAD CLEANING

EcoRemover® is suitable for removing oil and grease residues from road surfaces after oil and fuel spills, and for solving problems caused by oil in storage areas, quays, etc.

EcoRemover® technology has shown complete breakdown and removal of fuels (diesel and petrol) and engine oil. The asphalt's original grip properties were restored.





Before





After