

## ALKALINE CLEANING & MAINTENANCE

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\* Dangerous goods

## ALKALINE CLEANING & MAINTENANCE

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MARISOL® TERRA	CLEANER & DEGREASER, ENVIROSAFE	Art no 10.02
MARISOL® LC	LIQUID ALKALINE CLEANER	Art no 10.03
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MARISOL® FW	FOAM WASH	Art no 10.15
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\* Dangerous goods

# MARISOL<sup>®</sup> AP

**ALL PURPOSE CLEANER**  
Strengthened Envirosafe Cleaner/Degreaser

## **Deck:**

- Oil spillage
- Winches & deck machinery
- Cargo rooms / product tank cleaning
- Car & truck decks

## **Engine:**

- Main & auxiliary engine surfaces
- Floors & bulkheads
- Separator rooms & tank tops
- Air filters

Marisol AP is a strong alkaline cleaner.  
It leaves a clean film-free surface.  
Ideal for use with Marisol dosing systems.  
Contact us for details.

Dilute with water. Apply manually or  
by high pressure aggregate.  
Dilution: 2 – 10%

pH-neat: 13.5  
Flashpoint: None  
Packaging: 25 liter and 208 liter

# MARISOL<sup>®</sup> TERRA

## WATER-BASED CLEANER FOR ENGINE ROOM AND DECK

Formulated to Minimise Environmental Impact

### Deck:

- Oil spillage
- Winches & deck machinery
- Cargo rooms / product tank cleaning
- Car & truck decks

### Engine:

- Main & auxiliary engine surfaces
- Floors & bulkheads
- Separator rooms & tank tops
- Air filters

Marisol Terra has very low environmental impact and can be used for both deck & engine room cleaning. Recommended for use with Floc- Bilge water separation.

Ideal for use with Marisol dosing systems.  
Contact us for details.

Dilute with water. Apply manually or by high pressure aggregate.  
Dilution: 2 – 10%

pH-neat: 12.8  
Flashpoint: None  
Packaging: 25 liter and 208 liter

See Data Sheet 10.02

Marisol Terra is specially formulated to minimize environmental impact.

HOCNF APPROVED  
FOR OFFSHORE



# MARISOL<sup>®</sup> LC

## LIQUID ALKALINE CLEANER

Complex Compound

### Deck:

- Oil spillage
- Winches & deck machinery
- Cargo rooms / product tank cleaning
- Car & truck decks

### Engine:

- Main & auxiliary engine surfaces
- Floors & bulkheads
- Separator rooms & tank tops
- Air filters

Marisol LC contains corrosion inhibitors and is specially formulated to enhance the brightness and lustre of painted surfaces.

Dilute with water. Apply manually or by high pressure aggregate.

Dilution: 2 – 10%

pH-neat: 12.8

Flashpoint: None

Packaging: 25 liter and 208 liter

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See Data Sheet 10.03

# MARISOL<sup>®</sup> HD

## HEAVY DUTY CLEANER

### **Deck:**

- Winches & deck machinery
- Oil spillage
- Pump rooms
- Cargo rooms / product tank cleaning
- Manifolds
- Heavy deposits

### **Engine:**

Heavy duty cleaning in:

- Main & auxiliary engine surfaces
- Engine & pump room
- Heat exchangers
- Manifolds

Marisol HD dissolves "burnt-in" deposits on engine surfaces.

Dilute with water. Apply manually or by high pressure aggregate.

Dilution: 2 – 10%

pH-neat: 13.0

Flashpoint: None

Packaging: 25 liter and 208 liter

See Data Sheet 10.04

# MARISOL<sup>®</sup> FC

## FUEL & LUBE OIL SEPARATOR CIRCULATING ("CIP") CLEANER

Complex Compound

### Engine:

- Re-circulating cleaning (CIP) of bowl and disc stack in separators
- Manual cleaning of the dismantled disc stack
- Degreasing and cleaning of engine parts in washing machines

Marisol FC is also recommended for circulating and bath cleaning of scavenging air coolers.

Dilute with water.

Dilution: 2 – 5% in water for normal cleaning with a recommended temperature of 50-60°C.

pH-neat: 12.8

Flashpoint: None

Packaging: 25 liter and 208 liter

# MARISOL<sup>®</sup> RC

## REEFER CLEANER - DISINFECTIVE

### Deck:

- Cargo rooms after unloading refrigerated or frozen cargo
- Provision stores
- Galleys
- Waste containers & surroundings

Marisol RC effectively removes animal, fish and vegetable grease as well as eliminates mouldy deposits.

Dilute with water.  
Dilution: 0.5 - 5%

pH-neat: 13.8  
Flashpoint: None  
Packaging: 25 liter and 208 liter

See Data Sheet: 10.06

# MARISOL<sup>®</sup> CR

## CARBON REMOVER

### Engine:

Removal of carbon deposits from:

- Piston & piston rings
- Cylinder heads
- Fuel injectors
- Exhaust & intake valves
- Oil side of fuel and lube oil heat exchangers

Marisol CR has a high dissolving power and **low** toxicity.

Warming the solution will enhance the cleaning efficiency.

Dilute with water.

Dilution:

Bath cleaning: Dilute with 1–2 parts water.

Soak for 2–12 hours.

Circulation cleaning: Dilute with 2–4 parts water.

Circulate for 6–24 hours.

pH-neat: 13.0

Flashpoint: None

Packaging: 25 liter and 208 liter



# MARISOL<sup>®</sup> OC

## OIL CLEANER

### **Engine:**

Heavy Duty Cleaning in:

- Oil Spillage
- Engine Rooms
- Pump Rooms
- Separator Rooms

Marisol OC is specially developed for cleaning of oil contamination and to replace existing toxic petroleum based solvents. Marisol OC is less harmful to human health than high aromatic solvents

Marisol OC is easily separated in bilge water and is recommended for use with Floc- Bilge water separation.

Ideal for use with Marisol 600 dosing systems.  
Contact us for details.

Dilute with water.

Apply manually or by high pressure aggregate.  
Dilution: 2-10%

pH-neat: 13.0

Flashpoint: None

Packaging: 25 liter and 208 liter

See Data Sheet: 10.08

# MARISOL<sup>®</sup> OC-E

## OIL & FILTER CLEANER Based on Esters

### Engine:

Strengthened - Heavy Duty Cleaning in:

- Engine rooms
- Filter cleaning
- Pump rooms
- Separator rooms

Marisol OC-E is specially developed for cleaning of hard oil deposits like sticky Heavy Fuel Oil.

Marisol OC-E has been developed to replace existing toxic petroleum products.

Marisol OC-E is less harmful to human health than high aromatic solvents.

Note: Only restricted use (filter cleaning or stubborn deposits) is recommended. Not recommended for general cleaning in the engine room.

Dilute with water.  
Dilution: 5-20%

pH-neat: 10.5  
Flashpoint: None  
Packaging: 25 liter and 208 liter

# MARISOL<sup>®</sup> RO

## RE-ODOURISER & AIR FRESHENER LIQUID

### Deck:

- Used to eliminate and mask unpleasant odours in a wide variety of different applications.
- Ideal for re-odorising almost any area that has been contaminated with foul smelling waste, cargos or the by-products of processing operations, i.e. Waste containers, cargo holds, floors, drains, sumps etc...

Marisol RO can also be used for light cleaning or added to a diluted cleaning fluid to leave a pleasant smell.

Dilute with water.

Dilution: 1-5%

pH-neat: 7.0

Flashpoint: None

Packaging: 25 liter and 208 liter

See Data Sheet: 10.09

# MARISOL<sup>®</sup> GD

## GENERAL CLEANER & DEGREASER Complex Compound

### Deck:

- Oil spillage
- Winches & deck machinery
- Cargo rooms / product tank cleaning
- Car & truck decks

### Engine:

- Main & auxiliary engine surfaces
- Floors & bulkheads
- Separator rooms & tank tops
- Air filters

Marisol GD has very good water/oil separation ability and is recommended for use with Floc- Bilge water separation.

Dilute with water.

Apply manually or by high pressure aggregate.

Dilution: 2 – 10%

pH-neat: 12.8

Flashpoint: None

Packaging: 25 liter and 208 liter

# MARISOL<sup>®</sup> NC

## NEUTRAL CLEANER

Alkaline- Safe Cleaner

### Deck / Engine:

- Excellent for tank cleaning of alkaline sensitive tanks, i.e. zink coated tanks
- Can also be used in ultrasonic cleaners
- Safe economical cleaner for removal of vegetable oils, fatty oils, grease, hydrocarbons, etc. On all types of surfaces

The low pH of Marisol NC makes the product safe for cleaning of low alloy materials.

Dilute with water.

Apply manually or by high pressure aggregate.

Dilution: 2 – 10%

pH-neat: 10.5

Flashpoint: None

Packaging: 25 liter and 208 liter

See Data Sheet 10.11



# MARISOL<sup>®</sup> FW

## FOAM WASH

### Deck:

- Car & truck decks
- Cargo rooms
- Winches & deck machinery

### Engine:

- Main & auxiliary engine surfaces
- Floors & bulkheads
- Air filters

Marisol FW is efficient for cleaning of vertical surfaces. The foaming agent allows the cleaning agent to stick to the surface during the cleaning period.

Dilute with water.  
Dilution: 2-10%

pH-heat: 12.7  
Flashpoint: None  
Packaging: 25 liter and 208 liter

See Data Sheet: 10.15

# MARISOL<sup>®</sup> VT-Plus

**STRENGTHENED, NON CAUSTIC TANK CLEANER FOR  
VEGETABLE- & ANIMAL GREASE/OIL CONTAMINATION**

**Deck:**

- Tank cleaning of vegetable oil or animal oil/grease contamination
- Cargo rooms after unloading refrigerated or frozen cargo
- Provision stores
- Galleys
- Waste containers & surroundings

Marisol VT-Plus effectively removes animal, fish and vegetable grease as well as eliminates mouldy deposits.

Dilute with water.

Dilution: 1-6%

pH-neat: 13.9

Flashpoint: None

Packaging: 30kg (25 liter) and (250kg) 208 liter

See Data Sheet 10.21

# MARISOL<sup>®</sup> OM

## OIL & MUD CLEANER Strengthened Cleaner/Degreaser

### Deck:

- Mud tank cleaning
- Winches & deck machinery
- Car and truck decks

### Engine:

- Main & auxiliary engine surfaces
- Floors & bulkheads
- Separator rooms & tank tops
- Air filters

MARISOL OM is especially formulated for cleaning of mud tanks as well as an efficient deck and engine room cleaner/degreaser.

Dilute with water.  
Apply manually or by high pressure aggregate.  
Dilution: 5 – 20%

pH-neat: 12.8  
Flashpoint: None  
Packaging: 25 liter and 208 liter

See Data Sheet: 10.22

## ACID CLEANING & MAINTENANCE

MARISOL® LR*	LIMESTONE REMOVER	Art no 20.03
MARISOL® MB*	METAL BRIGHTENER	Art no 20.04
MARISOL® DC*	SEPARATOR DISC CLEANER	Art no 20.05
MARISOL® PC*	PIPE CLEANER	Art no 20.08
MARISOL® WD*	WOODEN DECK CLEANER	Art no 20.09
MARISOL® RW*	RUST WASH	Art no 20.11

\* Dangerous goods

# MARISOL<sup>®</sup> LR

## LIMESTONE REMOVER

### Engine:

Removal of scale and rust on internal surfaces in:

- Evaporators
- Heat exchangers
- Calorifiers
- Boilers
- Main and auxiliary cooling water pipe systems

Marisol LR contains corrosion inhibitors. A colour indicator shows the strength of the solution. The colour of the active solution is red and turns to yellow when no longer active.

Note: If possible, heat the solution to 60°C (Max 70°C) to enhance the efficiency.

Dilute with water.

Dilution: 5-10%

pH-neat: 1.5

Flashpoint: None

Packaging: 20kg fibre box



# MARISOL<sup>®</sup> MB

## METAL BRIGHTENER

Complex Compound

### Deck:

- Removes exhaust fumes on contaminated surfaces
- Removes rust streaks on contaminated surfaces
- Cleans oxidised surfaces on aluminium

If the equipment/surface is contaminated with oil or grease, the surface should be cleaned/degreased with an alkaline cleaner before treatment.

Note: For treatment before painting and removal of heavier rust formations, use Marisol RW.

Dilute with water in a plastic bucket.

**Always add the acid to the water, never the reverse!**

Dilution:

Heavy oxidation or tarnish on copper/brass. 20-40% for 20-30 min.

Brightening of aluminium. 10-20% for 5-10 min.

Removal of cement and lime. 30-50% for 20-30 min.

pH-neat: 1.5 - 2.5

Flashpoint: None

Packaging: 30 kg (25 liter)

See Data Sheet: 20.04

# MARISOL<sup>®</sup> DC

## SEPARATOR DISC CLEANER

Soak Cleaning

### Engine:

- Manual cleaning of disc stacks
- Removes heavy deposits  
(calcium carbonate and carbonised oil) on separator discs

For CIP cleaning use:

Marisol FC - Fuel & Lube Oil Separator Circulation Cleaner.

Dilute with water.

Dilution: 15-30%

pH-neat: 1.5

Flashpoint: None

Packaging: 30 kg (25 liter) and 250 kg (208 liter)

# MARISOL<sup>®</sup> PC

## PIPE CLEANER

### PREVENTIVE MAINTENANCE:

- Protects against formations/deposits in pipes in sewage and vacuum systems. Recommended to be dosed according to a maintenance schedule
- Also suitable for scale removal in heat exchangers and pipe systems
- Passivating of stainless steel tanks
- Rust wash

### COMPLETE CLEANING:

- At scale formations of 5 – 10 mm in pipe systems
- Can also be used as a rust wash and passivating stainless steel tanks.

Dilute with water.

Dilution for preventive maintenance or complete cleaning of EVAC-system:

Refer to Marisol PC Data Sheet 20.08 for complete dosing information.

pH-neat: 1.5

Flashpoint: None

Packaging: 32.5kg (25 liter) and 270kg (208 liter)

See Data Sheet: 20.08

# MARISOL<sup>®</sup> WD

## WOODEN DECK CLEANER

### DECK:

- Comprehensive treatment and cleaner for all types of wooden decks
- Removes grease and soot deposits
- Leaves a film free and lightened surface of the wood
- Also suitable for removing light rust streaks and burnt in soot deposits on deck surfaces

Dilute with water.

Dilution:

5-10% for wooden deck cleaning.

20-50% for rust streak removal.

pH-neat: 1.5

Flashpoint: None

Packaging: 30kg (25 liter) and 250kg (208 liter)

# MARISOL<sup>®</sup> RW

## RUST WASH

### DECK:

- Removes rust formations and rust steaks
- Removes cement and lime deposits
- After treatment and rinsing with water, a clean surface is ready for painting

If the equipment or surface to be treated is contaminated with grease or oil, clean with an alkaline cleaner.

Note: NOT recommended for cleaning of aluminium (See Marisol MB).

Dilute with water.

Dilution:

10-20% for rust streak removal.

30-50% for cement & limestone removal.

50-100% for very corroded surfaces.

pH-neat: 1.5

Flashpoint: None

Packaging: 30kg (25 liter) and 250kg (208 liter)

See Data Sheet: 20.11



## PETROLEUM CLEANING & MAINTENANCE

MARISOL® LD	LIGHT DEGREASER, TYPE 'COLDWASH' & FILTER CLEANER	Art no 30.01
MARISOL® LA	LOW AROMATIC DEGREASER	Art no 30.02
MARISOL® EC	LOW AROMATIC ELECTRICAL EQUIPMENT CLEANER	Art no 30.03
MARISOL® QS	QUICK SEPARATING DEGREASER	Art no 30.04
MARISOL® TC	TANK CLEANER, EMULSIFYING	Art no 30.05
MARISOL® OD	OIL SPILL DISPERSANT	Art no 30.06
MARISOL® AC-2	AIR COOLER CLEANER	Art no 30.07

# MARISOL<sup>®</sup> LD

**LIGHT DEGREASER**  
TYPE (COLDWASH) & FILTER CLEANER

**ENGINE:**

Dissolves Oil and Grease Deposits in:

- Engine Rooms
- Pump Rooms
- Main & Auxiliary Engine Surfaces
- Engine Parts in Bath Cleaning
- Engine Parts and Filter Cleaning in Washing Machines

Can be used for Ultra Sonic cleaning but the heating element must be turned off and the fuses removed.

To be used undiluted.

Flashpoint: 75°C (167°F)

Packaging: 25 liter and 208 liter

See Data Sheet: 30.01

# MARISOL<sup>®</sup> LA

## LOW AROMATIC DEGREASER

### ENGINE:

Dissolves Oil and Grease Deposits in:

- Engine rooms
- Pump rooms
- Main & auxiliary engine surfaces

Used for Cleaning:

- Engine parts in bath cleaning
- Engine parts and filter cleaning in washing machines

Can be used for Ultra Sonic cleaning but the heating element must be turned off and the fuses removed.

To be used undiluted.

Flashpoint: 77°C (154°F)

Packaging: 25 liter and 208 liter

See Data Sheet: 30.02

# MARISOL<sup>®</sup> EC

## LOW AROMATIC ELECTRICAL EQUIPMENT CLEANER

### ENGINE:

- Electrical equipment
- Electric motors
- Generators
- Contactors
- Electrical parts
- Engine parts

Marisol EC has a very low electrical conductivity.

Marisol EC does not contain the harmful Trichloroethane.

To be used undiluted.

Flashpoint: 62°C (144°F)

Packaging: 25 liter and 208 liter

See Data Sheet: 30.03

# MARISOL<sup>®</sup> QS

## QUICK SEPARATING DEGREASER

### ENGINE:

Removal of mineral oils and grease from:

- Floors
- Tank tops

Degreasing of:

- Machinery parts
- Diesel engine exteriors
- General engine room degreasing

Quick separating factor gives a clear bilge water, free from residues.

Marisol QS is easily separated in bilge water and is recommended for use with Floc- Bilge water separation.

To be used undiluted.

Flashpoint: 68°C (160°F)

Packaging: 25 liter and 208 liter

See Data Sheet: 30.04

# MARISOL<sup>®</sup> TC

**TANK CLEANER**  
POWERFUL DETERGENT EMULSIFIER  
TYPE – SeaClean

## **DECK:**

- Tank cleaning
- Manifolds for bunkering or cargo oil arrangements
- Pump room cleaning

## **ENGINE:**

- Tank top cleaning
- Heavy duty cleaning in separator rooms
- Filter cleaning

For tank cleaning read "Cleaning Cycle" on data sheet.

Warning: This product gives a non-split emulsion.

Dilution:  
0.5% for tank cleaning.  
Use undiluted for filter cleaning.

Flashpoint: 70°C (158°F)  
Packaging: 25 liter and 208 liter

See Data Sheet: 30.05

# MARISOL<sup>®</sup> OD

## OIL SPILL DISPERSANT

### DECK:

Can be used for a wide range of dispersal and cleaning of mineral oils, crude oils, lubricant oils, etc.

- On Accidental Oil Spills During Loading/Discharging of Cargo or Bunkers
- Cleaning of Oil Spills on Deck, Gratings, Piers, Etc.
- May Also Be Used for Tank Cleaning

### Dilution:

Oil spill dispersant: To be used undiluted.

Tank cleaning: 0.5-2% by injection, 1-5% for recirculation.

Flashpoint: 75°C (167°F)

Packaging: 25 liter and 208 liter

See Data Sheet: 30.06



# MARISOL<sup>®</sup> AC-2

**AIR COOLER CLEANER**  
Powerful Solvent  
(Also Suitable as a Carbon Remover)

**Engine:**

- In service cleaning of diesel engine air coolers
- Circulation or bath cleaning of diesel engine air coolers\*
- Carbon removal

Marisol AC-2 contains high aromatic solvents.

\*For bath cleaning we recommend the non-aromatic product Marisol FC.

**Dilution:**

In service cleaning: Marisol AC-2 to 2 parts water.

Circulation- and bath cleaning: Marisol AC-2 to 2 – 3 parts water,  
Marisol FC: 5-10%.

Carbon removal: Marisol AC-2 is used neat for carbon removal.

Flashpoint: 62° C (144° F)

Packaging: 25 liter and 208 liter

See Data Sheet 30.07

## WATER TREATMENT

MARISOL® BT*	BOILER WATER TREATMENT	Art no 40.01
MARISOL® CW	COOLING WATER TREATMENT	Art no 40.02
MARISOL® ET	EVAPORATOR TREATMENT	Art no 40.03
MARISOL® CC*	CONDENSATE TREATMENT & CORROSION INHIBITOR	Art no 40.06
MARISOL® BC+/US	BILGE WATER COAGULANT	Art no 40.07
MARISOL® SG-2*	SEA GROWTH TREATMENT	Art no 40.10
MARISOL® MC	MUD CONDITIONER	Art no 40.15
MARISOL® pH+*	STRONG ALKALINE SOLUTION FOR WATER TREATMENT	Art no 40.16
MARISOL® A-BAC	ANTI BACTERIAL TREATMENT FOR COOLING WATER	Art no 40.17

\* Dangerous goods

# MARISOL<sup>®</sup> BT

## BOILER WATER TREATMENT

### Engine:

- For use in marine boilers up to 30 bar pressure
- Reduces the hardness of water and maintains a prescribed ph value
- Prevents corrosion by creating a magnetite film on surfaces
- Reduces content of oxide
- Dissolves sludge for easy elimination through "blow down"
- Reduces foaming and carry over

Marisol BT does not contain the unhealthy component hydrazine.

### Dilution:

Refer to Marisol BT Data Sheet 40.01 for complete dosing information.

pH-neat: 13.5

Flashpoint: None

Packaging: 25 liter

See Data Sheet 40.01

# MARISOL<sup>®</sup> CW

## COOLING WATER TREATMENT

### Engine:

- For use in diesel engines
- Main & auxiliary cooling water systems
- Protects iron and metal against corrosion, scale and deposits
- Nitrite based and can be mixed with ordinary anti-freeze liquids and most of the other cooling water additives on the market
- Marisol CW contains no chromate
- Marisol CW has been approved by major motor manufactures

Note: Not suitable for systems containing aluminium

### Dilution:

6 liter per 1000 liter cooling water for minimum nitrite level of 1000 ppm (initial dosing).

9 liter per 1000 liter cooling water for medium nitrite level of 1500 ppm (initial dosing).

Refer to Marisol CW Data Sheet 40.02 for complete dosing information.

pH: 9.5 (in 1% solution)

Flashpoint: None

Packaging: 25 liter

# MARISOL<sup>®</sup> ET

## EVAPORATOR TREATMENT

### Engine:

- For hardness stabilization and crystal distortion in salt water feed to evaporators
- Reduces scale formations on evaporator heating surfaces
- Mixable with sea and fresh water

### Dilution:

Refer to Marisol ET Data Sheet 40.03 for complete dosing information.

pH-neat: 6.0-8.0

Flashpoint: None

Packaging: 27.5kg (25 liter)

See Data Sheet 40.03

# MARISOL<sup>®</sup> CC

## CONDENSATE TREATMENT & CORROSION INHIBITOR

### Engine:

Prevents corrosion in:

- Condensate system
- Steam traps
- Hot well
- Boiler feed lines

Marisol CC remains in the steam from the boiler and protects the entire system.

Marisol CC does not contain the harmful hydrazine.

### Dilution:

Refer to Marisol CC Data Sheet 40.06 for complete dosing information.

pH-heat: 13.0

Flashpoint: None

Packaging: 25 liter

# MARISOL<sup>®</sup> BC-PLUS/US

## BILGE WATER COAGULANT

Coagulant For Raw Water & Waste Water Treatment

### Engine:

- Marisol BC-PLUS/US works in a wide pH span and is approved by major manufacturer of bilge water Floc separation equipment
- Depending on use of correct cleaning agent (quick separating) the dosage can be as low as 100 ppm
- Unlimited shelf life
- Fast flocculation time
- Not classified as hazardous goods

### Dilution:

150-250 ml per 1000 liters water (150-250 ppm)

pH: 4.0-4.4 (15% W/W)

Flashpoint: None

Packaging: 33.5kg (25 liter)

See Data Sheet 40.07-US



# MARISOL<sup>®</sup> SG-2

## SEA GROWTH TREATMENT

### Engine:

Marisol SG-2 is based on biocides that are effective against sea growth in:

- Sea water inlets
- Pipelines
- Heat exchangers

Marisol SG-2 is designed to prevent microorganisms and to control further growth.

### Dilution:

Refer to Marisol SG-2 Data Sheet 40.10 for complete dosing information.

pH-neat: 6.0 (10% solution)

Flashpoint: None

Packaging: 25 liter and 208 liter

# MARISOL<sup>®</sup> MC

## MUD CONDITIONER

Mud Conditioner / Lifter for Ballast Tanks

### DECK:

- Keeps mud suspended to avoid build up in ballast tanks and pipelines
- Removes/loosens existing mud deposits in ballast tanks and pipelines

Dilution:

2-3 litres per 100 tons ballast water to prevent mud / silt deposits.

10 litres per 100 tons ballast water to remove existing deposits.

pH: 7.0-8.0 (neat)

Flashpoint: None

Packaging: 25 liter

See Data Sheet 40.15

# MARISOL<sup>®</sup> pH+

## STRONG ALKALINE SOLUTION FOR WATER TREATMENT

### Engine:

- NaOH based pH-booster for neutralizing acidic solutions
- Raise pH level of bilge water

Dilution:

Use undiluted. Add to water to raise pH to desired level.

pH: 14.0 (neat)

Flashpoint: None

Packaging: 25 liter

# MARISOL<sup>®</sup> A-BAC

## ANTI BACTERIAL TREATMENT FOR COOLING WATER

### Engine:

Marisol A-BAC is an active chemical agent based on antibacterial biocides for elimination of algae and bacteria in marine fresh water cooling systems and tanks for technical water.:

- Elimination of slime and bacteria in marine fresh water cooling systems
- Elimination of slime and bacteria in tanks for technical water

Marisol A-BAC is recommended for **technical water only**, not for drinking water or tap water.

### Dilution:

0.2 liter per 1000 liters water.

Dose where water is circulating.

Do not overdose!

**pH: 10.0 (in dilution)**

Flashpoint: None

Packaging: 5 liter and 25 liter

See Data Sheet 40.17

## FUEL OIL TREATMENT & SOOT PREVENTION

MARISOL® FT	FUEL OIL TREATMENT	Art no 50.01
MARISOL® PD	POUR POINT DEPRESSANT	Art no 50.02
MARISOL® SR	SOOT & SCALE REMOVER	Art no 50.03
MARISOL® SR-L	SOOT & SCALE REMOVER - LIQUID	Art no 50.04

# MARISOL<sup>®</sup> FT

## FUEL OIL TREATMENT

### ENGINE:

Marisol FT will considerably reduce problems with:

- Poor combustion
- Corrosion
- Sludge problems

### Marisol FT:

- Improves flame pattern
- Decreases soot deposits
- Cleans injector nozzles
- Inhibits corrosion
- Contains acid inhibitors

### Dilution:

1:1000 to 1:4000 depending on quality of fuel oil.

Flashpoint: 68°C (155°F)

Packaging: 25 liter and 208 liter

See Data Sheet: 50.01

# MARISOL<sup>®</sup> PD

## POUR POINT DEPRESSANT

### ENGINE:

- Marisol PD is an advanced, ash-less flow improver designed to control diesel fuel waxing problems in winter.
- Marisol PD is a high performance, low temperature flow improver for Gas Oil and Marine Diesel. It utilizes the latest technology and is designed to cope with higher wax content and narrow boiling range fuels.
- Marisol PD is an effective answer to blocked filters and crystal formation and will keep fuel flowing down to lower temperatures.

Dilution:

1:1000 effective to -19°C

1:500 effective to -21°C

Note: Dosages can vary depending on fuel quality.

Flashpoint: 68°C (155°F)

Packaging: 25 liter and 208 liter



# MARISOL® SR

## SOOT & SCALE REMOVER

### ENGINE:

- Marisol SR is a powder compound containing catalytic active agents to break down soot and scale from the flue gas side of boilers, exhaust boilers and air pre-heaters
- Marisol SR also reduces the sulphuric acid content in the flue deposits, thereby reducing corrosion.
- Marisol SR is active at low flue gas temperatures.

### Dilution:

For boilers: 75-100 grams per ton of previous days burnt fuel.

For exhaust boilers: 50-70 grams per ton of previous days burnt fuel.

pH: 7.0 - 8.0 (in 5% solution)

Flashpoint: None

Packaging: 30kg plastic pail. Measuring cup included.

See Data Sheet: 50.03

# MARISOL<sup>®</sup> SR-L

## SOOT & SCALE REMOVER - LIQUID

Marisol SR-L is a liquid compound, which is an effective additive to flue gases in oil-fired installations to remove and prevent the formation of soot on heat exchange surfaces.

### **ENGINE:**

- Achieve better fuel economy.
- Prolong boiler-cleaning intervals or eliminate regular boiler cleaning altogether.
- Reduce boiler corrosion, as the boiler does not need to be wet when cleaning.
- Reduce cost of disposal of spent cleaning water and sludge.
- Prevent soot fires.
- Prevent "burnt-in" soot deposits on deck.

Dilution:

Approximately 0.15 liter per ton of previous days burnt fuel.

pH-neat: 6.0

Flashpoint: None

Packaging: 25 liter and 208 liter

## ADDITIONAL PRODUCTS

MARISOL® DF	DE-FOAMER	Art no 70.01
MARISOL® HC	HAND CLEANSER	Art no 70.02
MARIZYME® TC-B	BIOLOGICAL TOILET CLEANER	Art no 70.11
MARIZYME® SC-B	BIOLOGICAL SURFACE CLEANER	Art no 70.12
MARIZYME® DPS-B	BIOLOGICAL DRAIN/PIPE CLEANER & SEWAGE BOOSTER	Art no 70.13
MARIZYME® TPD-B	BIOLOGICAL TOILET, PIPE & DRAIN DESCALER - POWDER	Art no 70.14

# MARISOL<sup>®</sup> DF

## DE-FOAMER

### DECK/ENGINE:

- Marisol DF is a totally water dispersible, liquid emulsion de-foamer. It is not sticky and has no adhesive properties.
- Marisol DF is an excellent product for controlling foam build-up in sewage and waste systems. It can also be used with alkaline and acidic cleaners to control the formation of foam.

Dilution: 5-20 ppm is a normal dilution but it is best to determine proper dosage rate with on site testing.

pH-neat: 7.5

Flashpoint: None

Packaging: 5 liter, 10 liter and 25 liter

# MARISOL<sup>®</sup> HC

## HAND CLEANSER

### DECK/ENGINE:

- Marisol HC is a gel skin cleanser formulated to remove the most severe industrial grime, oil and grease in complete safety.
- Marisol HC is effective and suitable for the heaviest soiling. It contains both emollient and moisturising ingredients to maintain good skin condition. It leaves no solvent smell on hands after use.

pH-neat: 8.5

Flashpoint: None

Packaging: 4 x 5 liter and 12 x 700 ml

See Data Sheet: 70.02

# MARIZYME<sup>®</sup> TC-B

## BIOLOGICAL TOILET CLEANER

### ACCOMMODATIONS/DECK/ENGINE:

MARIZYME TC-B is a powerful and effective biologically active liquid for cleaning toilets and bathrooms:

- For cleaning of toilet bowels
- Has a descaling effect when used daily
- Helps maintain marine sewage plants
- Reduces smells
- Safe to use. Does not contain harsh chemicals
- Can also be used for cleaning sinks, showers, etc...

MARIZYME TC-B contains specialised bacterial strains and chemical cleaners. It is safe to use and is an environmentally adapted product.

Dilution:  
Use neat

pH-neat: 4.6

Flashpoint: None

Packaging: 1 liter (12 bottles per case)

See Data Sheet: 70.11

# MARIZYME® SC-B

## BIOLOGICAL SURFACE CLEANER

### ACCOMMODATIONS/DECK/ENGINE:

MARIZYME SC-B is a powerful and effective biologically active liquid for cleaning bathrooms, galleys, carpets, etc.:

- For cleaning of sinks, showers, bathroom surfaces, galley surfaces, carpets, fabrics, scrubbers, etc.
- Ideal for cleaning all surfaces from organic substances such as; urine, faeces, vomit, food and drink, etc.
- Reduces smells
- Helps maintain marine sewage plants
- Safe to use. Does not contain harsh chemicals

MARIZYME SC-B contains specialised bacterial strains and chemical cleaners that clean and remove solids from surfaces and control odours by first masking and finally removing through biological action against organic residue.

Dilution:

Carpets and fabrics: Use neat

Hard surfaces: 1:10 - 1:50

pH-neat: 4.6

Flashpoint: None

Packaging: 1 liter (12 bottles per case - 1 spray pump incl. per case)

See Data Sheet: 70.12



# MARIZYME<sup>®</sup> DPS-B

## BIOLOGICAL DRAIN/PIPE CLEANER & SEWAGE BOOSTER

### ACCOMMODATIONS/DECK/ENGINE:

MARIZYME DPS-B is a natural way to clean pipes & drains, treat grease traps, septic tanks, marine sewage treatment plants etc..:

- Reduces smells
- Increases capacity of sewage treatment plant
- Does not contain harsh chemicals
- Application temperature 10P°C – 35P°C
- Recommended pH range of use 6-9

MARIZYME DPS-B uses nature's own biological action to break down proteins, grease, fats and carbon hydrates.

Dilution:  
1-10%

pH-heat: 8.0

Flashpoint: None

Packaging: 5 liter and 25 liter

See Data Sheet: 70.13

# MARIZYME® TPD-B

## BIOLOGICAL TOILET, PIPE & DRAIN DESCALER - POWDER

### ACCOMMODATIONS/DECK/ENGINE:

MARIZYME TPD-B is a blend of organic acids and bacterial strains designed for cleaning and the removal of built up scale deposits. MARIZYME TPD-B used mild acids and wetting agents to remove scale deposits in toilets, toilet systems, drains and pipes:

- Easy to use
- Does not disturb biological process of sewage treatment plant
- Biodegradable
- Suitable for a variety of surfaces

MARIZYME TPD-B uses nature's own biological action to break down proteins, grease, fats and carbon hydrates. This product will not disturb the biological process in sewage systems and tanks.

Dilution:

Use undiluted

25-50 grams per treatment

1.0 (1% solution)

Flashpoint: None

Packaging: 1kg and 5kg

See Data Sheet: 70.14