



**FUEL PRESERVATION with**  
**PETROSID® FP 1.5**

**Full System  
Protection**

>> Powerful  
in the fuel AND  
in the water phase



**Broad spectrum activity against  
microbial growth**



**Long-term preservation**

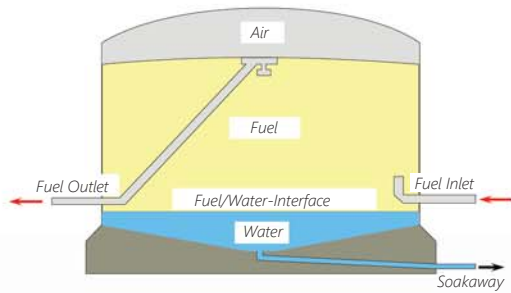


**Effective in a wide range of fuels**

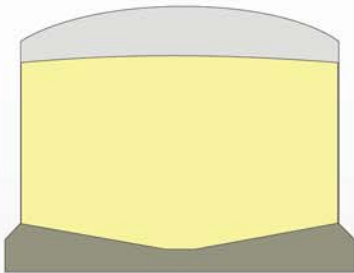


**For storage and distribution tanks  
of refineries, petrol stations,  
ship tanks**

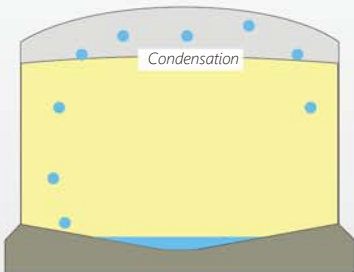
**INITIAL SITUATION:  
FUEL TANK WITH WATER BOTTOM**



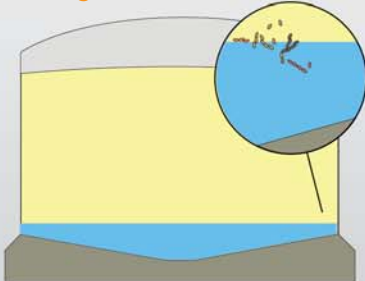
**STAGE 1: Virgin fuel**



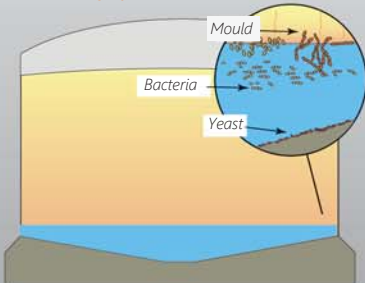
**STAGE 2:  
Accumulation of water at the bottom**



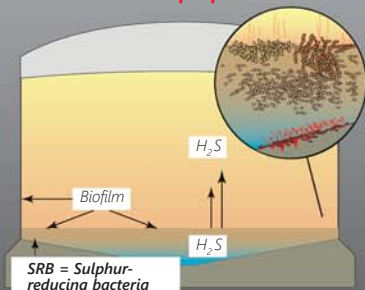
**STAGE 3:  
Microbiological contamination**



**STAGE 4: Explosion of population and related by-products**



**STAGE 5:  
Massive microbial populations**



**THE PROBLEM**

Condensation water collected at the bottom of the fuel tank leads to microbial contamination quickly.

Unwanted aerobic and anaerobic bacteria, yeast and moulds develop massively, depending on the prevailing physical and chemical environmental parameters.

Severe consequences are the result. Biofilm growth and microbially induced corrosion (pitting), sludge formation, filter and pipes plugging, fuel haziness, foul odour by formation of highly toxic H<sub>2</sub>S, and finally rapid deterioration of fuel quality.

**THE SOLUTION:**

**PETROSID® FP 1.5**

**AGAINST MICROBIAL FOULING IN FUELS**

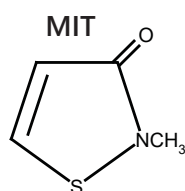
**APPLICATIONS**

- > Crude oil
- > Diesel fuel (marine and automotive)
- > Heating oil
- > Biodiesel

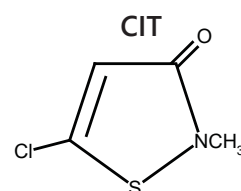
**ADVANTAGES OF PETROSID® FP 1.5**

- > **Broad spectrum activity** against microbial growth
- > **Complete system protection** and **long-term preservation**
- > **Active in the fuel AND in the water phase**
- > **Compatible** with fuel and fuel systems, components and machines
- > **Economical use**

**ACTIVE INGREDIENTS (A.I.) OF PETROSID® FP 1.5**



2-Methyl-4-Isothiazolin-3-one



5-Chloro-2-methyl-4-Isothiazolin-3-one

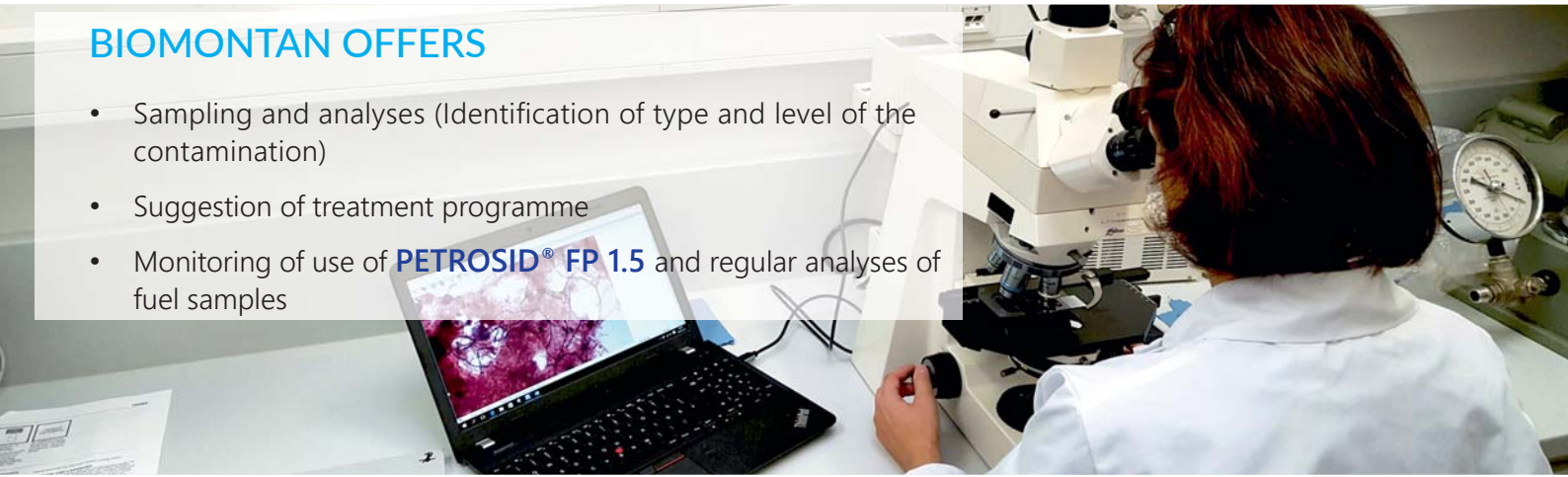
Biomontan Produktions und Handels GmbH

Chemische Produkte für Papier und Umwelttechnik

A-4470 Enns, Regensburger Straße 5 ☎ +43 (0) 7223 86 131-0 🚗 -20

## BIOMONTAN OFFERS

- Sampling and analyses (Identification of type and level of the contamination)
- Suggestion of treatment programme
- Monitoring of use of **PETROSID® FP 1.5** and regular analyses of fuel samples



## TANK TYPES

- > **Storage and distribution tanks of refineries and petrol stations**
- > **Other storage tanks**
- > **Ship tanks**

## DOSAGE TYPES

- > **Shock dose** for heavy contamination
- > Treatment of **normally contaminated systems**
- > **Continuous dose / preventive dose**

## DOSAGE RECOMMENDATIONS

### PETROSID® FP 1.5

Curative for a fouled system  
(ml per 1.000 Liter)

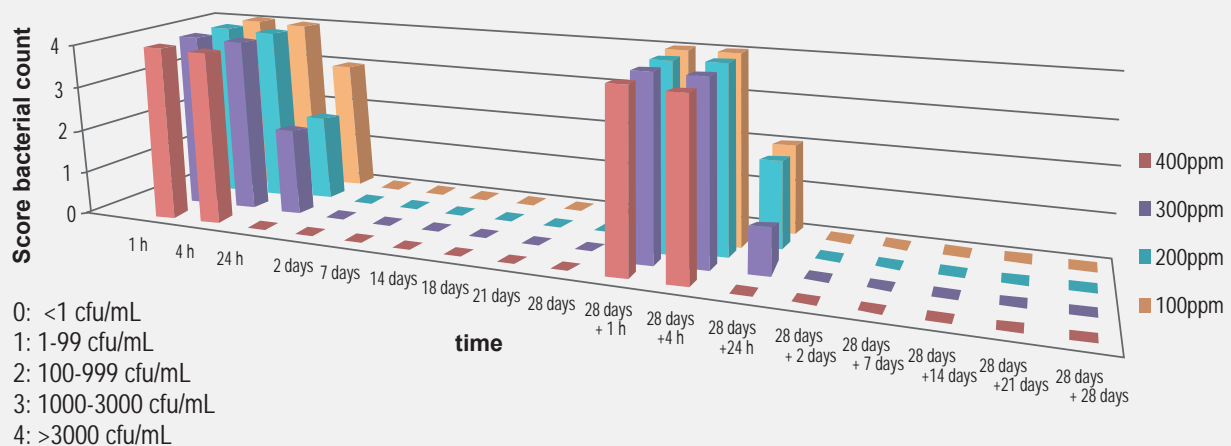
Preventive treatment  
(ml per 1.000 Liter)

300

50 - 100

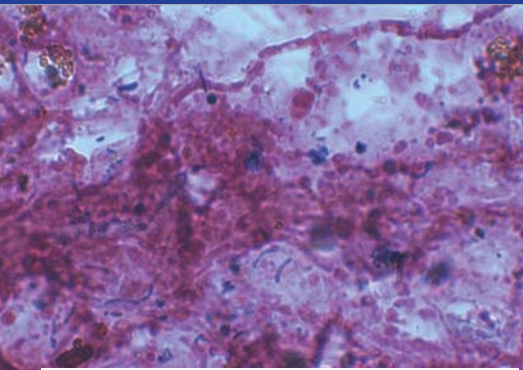
## LONG-TERM EFFICIENCY

Efficiency of PETROSID® FP 1.5 in Diesel vs. bacteria

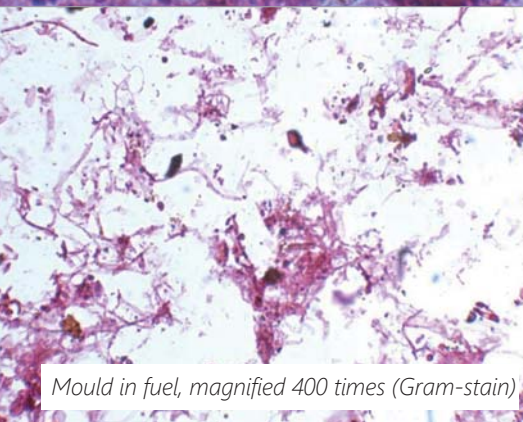


Note: The test was reinoculated with bacteria at 28 days to measure long term protection capability

# MATERIAL COMPATIBILITY AND APPLICATION GUIDELINES



Bacteria, magnified 1000 times (Gram-stain)



Mould in fuel, magnified 400 times (Gram-stain)

## PACKAGE UNITS

## SAFETY NOTES

## DOSING EQUIPMENT COMPATIBLE WITH PETROSID® FP 1.5

|   |   |   |   |
|---|---|---|---|
| + | PE polypropylene                            | Aluminium                               | + |
| + | PVC-U                                       | grey cast iron                          | + |
| + | GRP - epoxy resin                           | BS 3607<br>ST 37 / ASTM A 53            | + |
| + | GRP - polyester resin                       | Stainless steel 1.4301*<br>(AISI 304)   | + |
| + | GRP - phenylester resin                     | Stainless steel 1.4541*<br>(AISI 321)   | + |
| + | GRP - furan resin                           | Stainless steel 1.4571*                 | 0 |
| 0 | NBR   | Stainless steel 1.4404*<br>(AISI 316 L) | + |
| + | EPDM-rubber<br>(Nordel®)                    | Stainless steel 1.4435*<br>(AISI 317 L) | + |
| + | FKM<br>(VITON®)                             | Stainless steel 1.4408*<br>(316)        | 1 |
| + | PPS<br>(Ryton®)                             | Stainless steel 1.4460*<br>(316)        | 1 |
| + | Teflon® PTFE, TFE, FEP, PFA                 | glass lined steel                       | + |
| + | Carbon / Ceramic<br>for mechanical<br>seals | glass                                   | + |
| + |   | PE - polyethylene                       | + |

+ compatible

- not compatible

0 not tested

1 for special applications in consultation with Biomontan GmbH

\*) On stainless steel there is a risk of pitting. This applies especially in the presence of chloride ions and in vicinity of welding spots and deformities of material).

The above information is only advisory and is not to be understood as binding for the supplier.

## APPLICATION GUIDELINES

- > Ensure uniform distribution (ideally added into a flowing fuel stream)
- > Heavily contaminated tanks should be cleaned before the addition of **PETROSID® FP 1.5**
- > Never dose **PETROSID® FP 1.5** into an empty tank
- > Let tank stand still for 24 to 48 hours
- > Take precautions to avoid skin- and eye-contact

## PACKAGE UNITS

- > canisters on request
- > 210 kg drum
- > 1050 kg IBC
- > in bulk

Use biocides in a safe way.  
Always read labelling and product information before use.

The application according to national statutory requirements must be verified by the user.  
Created: 04/2020 in consideration of legal situation valid at this time.