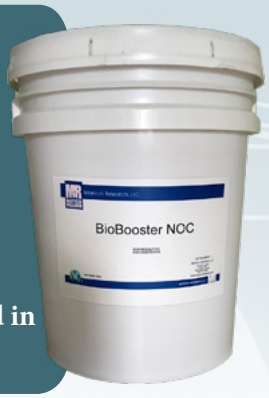
Member of the BioGuarde Product Line

BioBooster NOC

The Microbe-Macro- & Micronutrient Combination Optimized for Your Biology

Elevated metabolic performance of the biology in wastewater treatment and in Hydrocarbon bioremediation applications



Benefits of BioBooster NOC bioaugmentation at WWTP's:

- **Optimizes all biological treatment processes to run with the maximum achievable pace**
- Easy to use solid that quickly dissolves in water
- Compact size for easy storage
- Long shelf life
- Works effectively without introducing environmentally hazardous chemicals
- **Safe, and easy to incorporate into your normal treatment routine**
- **100% all-natural & biodegradable, non-GMO, non-toxic, non-hazardous**

Additional Benefits of BioBooster NOC at Hydrocarbon bioremediation:

- **Support SOS5300 bacteria to metabolize Hydrocarbon pollution at peak level**
- Buffers the bulk against pH drop

Product description:

BioBooster NOC is an all-natural product made by fermentation that contains all-natural microbes teamed with the essential macro- & micronutrient, trace element, vitamin, and biostimulant sources in the correct ratio to ensure all natural, and bioaugmented systems to operate with full metabolic capacity, and optimum pace. This microbial-nutrient system enhances the production of enzymes which supply the system with more enzymes in a shorter period of time. The contents of BioBooster NOC are needed for your biology in low amounts, but it is key essential to have them: their deficiency makes the systems sluggish, bad nutrition has a dismal effect for the purification process. Biobooster NOC has a broad range of minerals to help as co-enzymes in some of the more complex sequences.

Malatech Water Trading & Service, Ltd.
Address:
EU: 1/E Vanyi way, Alsonemedi, 2351 HU
North America: 15 Myrtle Drive, Bishopville, SC 29010 USA
Asia-Pacific: 36 U. Ind. Estate, W.T Patil road, CH Mumbai, 400 088 IN

Telephone: +36-30-377-8089
E-mail: info@malatechwater.com
Web: www.malatechwater.com

The product is supplied as a solid powder form which dissolves well in pure water. We recommend the dosage of the product's aqueous solution to the system on a continuous basis. **Dosing of the product is recommended by a simple low-capacity metering pump from any container at wastewater applications.**

Application for Hydrocarbon bioremediation differs from the above, and is dependent on remediation technology applied.

Fields of application:

- **Hydrocarbon bioremediation**
- Industrial, and municipal **activated sludge, granular sludge, or MBBR** (attached growth) wastewater treatment plants
- Wastewater lagoons, effluent holding tanks, tertiary treatment ponds
- Livestock waste streams (lagoons, pre-treatment plants, etc.)

Application of BioBooster NOC:

IMPORTANT INFORMATION:

Recommended daily dosages are guidelines only, given in ppm for the solid product based on m3/d average hydraulic raw wastewater load!

For determining exact dosages for your WWTP, please provide us information by sending us our wastewater datasheet filled with information about your plant.

Dosage of the product's aqueous solution is preferably automated & continuous by a metering pump. Concentration of aqueous solution is 50g/litre at maximum, further dilution is up to operator's decision, as well as storage tank volume. The product can be easily incorporated in your operation. Manpower is only needed for a few minutes once a week.

Whenever you have any questions, do not hesitate to contact us!

Dosage information:

Wastewater applications: usually 5-10 ppm, highly dependent on raw wastewater characteristics.

Hydrocarbon bioremediation applications: usually 60-2000 ppm as a nutrient supplement for the SOS5300 Hydrocarbon consuming bacteria, highly dependent on Hydrocarbon type, concentration, method of bioremediation, target concentrations.

Dosing location for wastewater applications:

Dosing into the first biological reactor of the plant is recommended, or the product can be dosed directly into the primary treated influent wastewater before entering the first bioreactor of the system. In case of SBRs, dosage can be executed in the EQ or buffer tanks.

Dosing location for Hydrocarbon bioremediation applications:

Inspection wells for in-situ bioremediation of Hydrocarbon polluted ground or groundwater: aqueous solution should be added directly into the wells, and let hydrostatic pressure bring the solution in the affected area.

Storage pond for ex-situ bioremediation of Hydrocarbon polluted groundwater: aqueous solution should be dosed occasionally together with SOS5300, or on a continuous basis by metering pump together with SOS5300 (depending on remediation technology).

Directly onto the pile of soil in case of ex-situ treatment of Hydrocarbon polluted soil. Aqueous solution should be dosed, periodically together with SOS5300.

For Hydrocarbon bioremediation projects, please take the table below for consideration (table is also shown in the TDS of SOS5300):

1) Recommended and minimum litre of SOS5300 and kg of BioBooster NOC/ m3 of contaminated ground		
1/a TPH is below 1 000 mg/kg.....0.24 l + 0.24 kg of BioBooster NOC	Minimum:	0.05-0.05
1/b TPH is betw. 1 000-5 000 mg/kg....0.5 l + 0.5 kg of BioBooster NOC	Minimum:	0.10-0.10
1/c TPH is betw 5 000-20 000 mg/kg....1 l + 1 kg of BioBooster NOC	Minimum:	0.20-0.20
1/d TPH is betw. 20 000 - 50 000 mg/kg...2 l + 2 kg of BioBooster NOC	Minimum:	0.40-0.40
1/e TPHis above 50 000 mg/kg.....4 l + 4 kg of BioBooster NOC	Minimum:	0.80-0.80
2) recommended and minimum litre of SOS5300 and BioBooster NOC / m3 of contaminated groundwater		
2/a TPH is below 1 000 microgram/l.....120 mls + 120 g BioBooster NOC	Minimum:	20-20
2/b TPH is betw 1 000-5 000 microgram/l....240 mls + 240 g BioBooster NOC	Minimum:	40-40
2/c TPH is betw 5 000-20 000 microgram/l....500 mls + 500 g BioBooster NOC	Minimum:	70-70
2/d TPH is betw. 20 000 - 50 000 microgram/l.....1000 mls + 1000 g BioBooster NOC	Minimum:	200-200
2/e TPH is above 50 000 microgram/l.....2 000 mls + 2 000 g BioBooster NOC	Minimum:	200-200
Dosage is also highly dependent on: soil type, pH of water, temperature of water, flow direction and volume, depth of water and depth of contamination		

Packaging information:

The product is available in 20 kg safety pails which is the lowest unit for ordering.

Storage information & shelf life:

Keep the product in a cool and dry place below 28 Celsius. Avoid exposure to direct sunlight. Shelf life is 5 years from manufacturing date.