

Arid GARDEN THE DESERT  
NOW YOU CAN Grow®

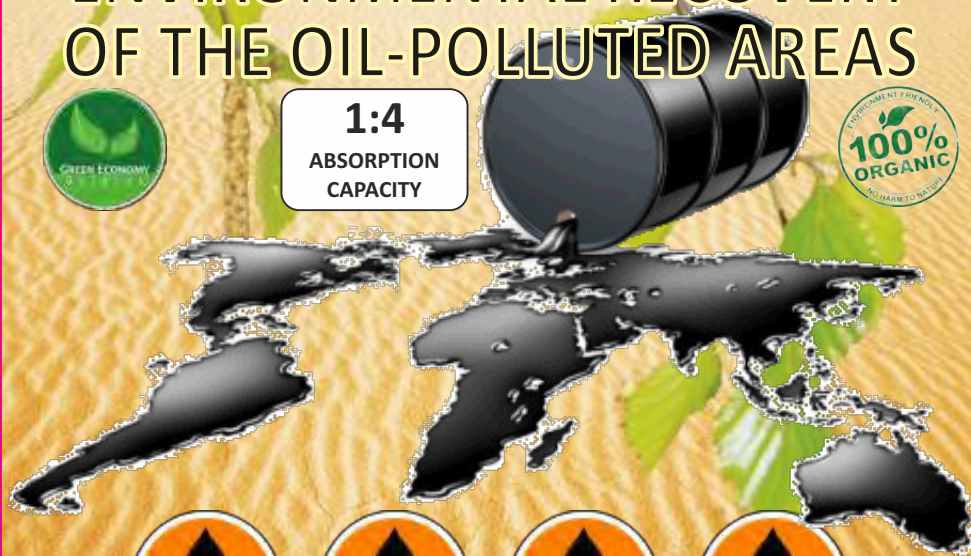


**NEW!**

# HUMIC CONCENTRATES FOR ENVIRONMENTAL RECOVERY OF THE OIL-POLLUTED AREAS



**1:4**  
ABSORPTION  
CAPACITY



**THE BEST INNOVATIVE PRODUCT OF THE YEAR**  
by recognition of the Regional Office for Near East  
and North Africa of the **FOOD & AGRICULTURE**  
**ORGANIZATION of the UNITED NATIONS (FAO)**



## OIL ABSORBENT-BIODESTRUCTOR AridGrow® PHOA-M (4-8 g/g)

### APPLICATION

#### ON SOIL & WATER SURFACES:

✓ **Spread OIL ABSORBENT** on a surface of an oil-polluted area by any appropriate method. Wait a bit and there is **NO MORE ANY ECOLOGICAL THREAT**, i.e. contamination encapsulates within the absorbent particles without any opportunity to go out. Also you can use any special equipment (air or sand blaster machinery) for powerful immobilization of the contaminant into the capillary structure of the absorbent.

✓ **DOESN'T REQUIRE SPECIAL COLLECTING & ANY DISPOSAL** of the used absorbent, BECAUSE OF keeping contaminant within the particles in encapsulated form without any opportunity to go out, where is gradual **COMPLETE BIODEGRADATION INTO WATER (H<sub>2</sub>O) & CARBON DIOXIDE (CO<sub>2</sub>)** goes naturally in an environmentally friendly way at the molecular level **NO LONGER THAN FOR 1 YEAR**. It can be used further as ameliorant soil-conditioner for.

✓ **USED ABSORBENT** with absorbed any oil products **belongs to hazard class 4 - low-hazard substances**, according to GOST 12.1.007, and can be disposed of as ordinary household waste.



### PROPERTIES:

- ✓ **Standard absorption capacity for raw oil is 4 g/g and 8 g/g for light oil products.** It is operational in a wide temperature range from  $\pm 50^{\circ}\text{C}$ .
- ✓ **Rate of absorption** of oil products at a temperature of  $+20^{\circ}\text{C}$  is: commercial oil of medium viscosity **15-30 sec**, gasoline and thin (rainbow) films of hydrocarbon nature from the water surface **1-2 sec**, motor oil **5-8 sec**. At negative temperatures, the oil absorption time increases to **1-2 min**.
- ✓ **Has water-repellent properties**, is not wetted by water and does not dissolve in water, providing buoyancy for at least 25 days. Non-toxic, explosion and fire safe.
- ✓ **Environmentally safe** for people, animals and plants, does not contain harmful chemical elements and waste products.
- ✓ **Has no restrictions on use** and is approved by sanitary authorities of all countries as a natural substance that does not require hygienic regulations.
- ✓ **STORAGE CONDITIONS:** Keep in a dry dark place at a temperature  $\pm 50^{\circ}\text{C}$ , avoiding direct sunlight and high humidity. The shelf life and storage **IN UNBROKEN ORIGINAL FACTORY PACKAGING IS NOT LIMITED**.

**MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION**  
**OIL ABSORBENT-BIODESTRUCTOR AridGrow® PHOA-M**

**TR BY 490421644.010-2023**

**AridGrow® PHOA-M (Powdered Humic Oil Absorbent - Multifunctional)** is a natural, environmentally friendly absorbent substance, which is a powdered concentrate of Humic Substances isolated from Peat by using special **AridGrow® Technology**. Highly versatile tool for removing thin film of oil and oil products on various land & water surfaces. Surface Cleaner for oiled steel, transport equipment, breakwaters, piers, ramps and other surfaces contaminated with petroleum products and non-polar hydrocarbons. Highly effective for rapid absorption and fixation of petroleum, oil, fuel oil and other liquid non-polar organic pollutants by hydrocarbon nature.

**APPLIED FOR:** express fixation, absorption & environmental recovery of any oil-polluted areas on land & water surface, removing thin iridescent oil films, cleaning ports, piers, breakwaters and transport equipment, surface oiled metal structures, bridges, oil tanks and greasy production facilities of automotive service and fuel stations, etc.

**IN EMERGENCY SITUATIONS** to liquidate the consequences of accidents during production and transportation of any kind of hydrocarbons in the oil wells and offshore platforms, oil and fuel lines, tank farms and fuel depots, oil transfer stations, road and rail tankers, gas stations, etc.

**PRODUCED** in 20kg/50l PP bags with HDPE liner. Packaging meets international requirements for this type of product for easy calculation of the required amount of absorbent for the customer: **1 bag absorbs 1 barrel (160 liters) of crude oil or 200 liters of light hydrocarbon pollutants or completely restores the area contaminated with oil products at the rate of ±1kg/1sq.m.**, depending on the depth of penetration of the pollutant.

**RATE OF OIL PRODUCT SORPTION:** commercial oil of medium viscosity at a temperature of +20C is 15-30 sec, gasoline and thin (rainbow) films of hydrocarbon nature from the water surface 1-2 sec, motor oil 5-8 sec. At negative temperatures, the oil absorption time increases from several minutes to several hours.

**ANY COLLECTION AND SPECIAL DISPOSAL** of the conglomerate (the products of interaction of the sorbent with oil and oil products) is **NOT REQUIRED** and is performed at the request of the consumer, since the oil and oil products absorbed by the sorbent no longer pose an environmental threat and are contained inside the sorbent particles in an encapsulated form, where their gradual **COMPLETE BIODEGRADATION INTO WATER (H<sub>2</sub>O) AND CARBON DIOXIDE (CO<sub>2</sub>) OCCURS NATURALLY AT THE MOLECULAR LEVEL OVER A PERIOD OF UP TO 1 YEAR** without the possibility of reverse desorption and are **classified as low-hazard preparations of hazard class 4, according to GOST 12.1.007-76.**

**Arid**  **GARDEN THE DESERT**  
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**Dear Customers !**

We are very glad to present You an innovative novelty -  
**Desert Gardening Technology AridGrow® and its Products !**

**AridGrow® Product** is Powdered Humic Oil Absorbent-Biodestructor of a **Quick-Effect** and highly concentrated **Natural Product**, processed from **Peat** by special **AridGrow® Technology** with the purpose of modifying its physical and chemical properties and qualities for consumer demands and designed for express-fixation, absorption and encapsulation of all types of hydrocarbon pollutants inside its structure without the possibility of reverse desorption, where their gradual **COMPLETE BIODEGRADATION INTO WATER (H<sub>2</sub>O) AND CARBON DIOXIDE (CO<sub>2</sub>)** occurs in a natural way at the molecular level over a period of **UP TO 1 YEAR**. Subsequently, after the completion of the hydrocarbon biodegradation process, it continues to act as ameliorant soil-conditioner to restore degraded soils disturbed by human economic activity with the possibility of their subsequent involvement in economic circulation.

**ABSORBENT-BIODESTRUCTOR**

**AridGrow® PHOA-M**

in 400kg/1cub.m. PP big-bag



**ABSORBENT-BIODESTRUCTOR**

**AridGrow® PHOA-M**

in 20kg/50L PP bag with HDPE liner



**AridGrow® Products** are developed by the **Institute for Nature Management of the National Academy of Sciences of Belarus** with scientific-technical support of the UK scientific-research company **«AridGrow Laboratories»** and passed successful comprehensive tests during 15 years in the Middle East. Recommended to use by the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus and the Regional Office for the Near East and North Africa of the Food and Agriculture Organization of the United Nations.

**CERTIFIED IN EUROPEAN UNION FOR ORGANIC FARMING.**

**Made in Belarus** by Belarus-UK joint venture **«AridGrow Production JLLC»** under the license and control of the UK scientific-research company **«AridGrow Laboratories»**.



For Buying **AridGrow® Products** contact, please:

**Belarus-UK JLLC «ARIDGROW PRODUCTION»**

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More details at: [www.aridgrow.by](http://www.aridgrow.by) | [www.aridgrow.international](http://www.aridgrow.international)

