



## SOLAR PANEL CLEANING

Cleaning solar panels is essential for their optimal performance and longevity. Here we will present to you the benefits of using a waterless cleaning method using a natural active carbon solution and guide you through the process. Find out the benefits of a real natural product from mother nature resulting from a new disruptive technology that respects nature, coming now to the solar market., capable of keeping and ensuring a safe and efficient cleaning routine: **MAX SOLARIS**. Come to know the **benefits of waterless cleaning** using the **ACTIVE CARBON** solution derived from naturally occurring graphene with a specific mass of 0.9961 grams/cm<sup>3</sup>:

- **Improves efficiency:** following regular cleaning with the activated carbon solution removes debris, dirt, and dust and accumulate, thus allowing the photovoltaic panels to absorb more light (photons) and be more efficiently in generating power from the sun, and as a result, generate more energy. Without proper and regular cleaning, your solar plant can lose 25% to 30% of its energy generation;
- **Increases longevity:** by preventing the accumulation of dirt and pollutants, waterless washing and waxing helps to extend the life of solar panels;
- **Saves water:** unlike traditional cleaning methods, waterless cleaning conserves water resources, making it an environmentally friendly choice.
- **Easy and convenient:** the waterless method eliminates the need for buckets, hoses or excessive equipment, decreasing manpower and simplifying the cleaning process.

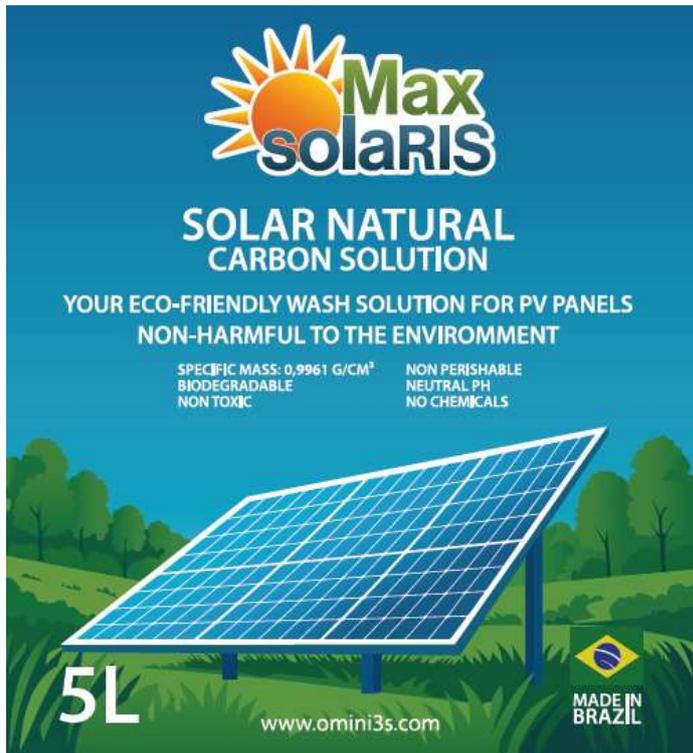
**MAX SOLARIS** is a "Natural desincrusting solution resulting from the nano-molecular disintegration of natural graphene, and intended for cleaning photovoltaic panels". It meets the requirements of the Collegiate Board Resolution (RDC) 44/2014 of ANVISA – National Health Surveillance Agency in Brazil.

According to RDC 44/2014, natural products that do not have claims of chemical, therapeutic or medicinal properties and that are used for cleaning or hygiene purposes can be classified as "Simple Natural Products".

Therefore, it is na **ECO-FRIENDLY** and **100% BIODEGRADABLE** product;

- It is **NON-PERISHABLE** and has a **NEUTRAL PH**;
- It is **NON-FLAMABLE**;
- It has no claims of chemical, toxic, therapeutic or medicinal properties;
- **100% NATURAL**, composed of active amorphous carbon derived from the nanometric synthesis of natural graphene.

ORDERING OPTIONS: GALLONS WITH 5L-10L-50 L – 100 L – 200 L



Your **MAX SOLARIS** solution is ready to be used on the solar panels without adding water, following the instructions enclosed in.

*WATER-FREE CLEANING PV PANELS WITH MAX SOLARIS*

Your maintenance team's tools are simple ones:

A very soft non-scratching scrubber pad



Pressurized Sprayer  
(For small solar plants)



**A VERY SOFT MOP PAD**



**PRESSURIZED SPRAYER  
(For medium and large size solar plants)**



**STEP BY STEP TO DRY CLEANING SOLAR PANELS**



**THESE ARE THE WORKING TOOLS NECESSARY TO DO THE JOB**



**SQUEEGEE**

**PUMP SPRAYER**

**SOFT SCRUBBER PAD**

**NOTE: MAX SOLARIS ACTIVE CARBON SOLUTION IS NOT BE DELUTED WITH WATER.**

## **A- SOLAR PANELS INSTALATION ON GROUND**

**STEP# 1 – USE A PRESSURIZED SPRAYER FILLED WITH MAX SOLARIS AND DO A SPRAYING PROCESS OVER THE WHOLE PV PANEL FROM TOP TO BOTTON AND SIDEWIDE**



**– SPRAY THE MAX SOLARIS SOLUTION ON A VERY SOFT MOP WETTING IT**

**(1.1) PROCEED WITH CLEANING BY MOVING THE MOP FROM TOP TO BOTTOM AND ALSO ON THE SIDES AND EDGES UNTIL A VERY HOMOGENEOUS SURFACE SPREAD IS ACHIEVED OVER THE ENTIRE SOLAR PANEL. RUN THE MOP ON THE EDGES OF THE PANEL. REPEAT THE PROCESS IF NEEDED.**

## **B- INSTALATIONS IN ROOF TOP OF COMMERCIAL OR UTILITY-SCALE PV SYSTEMS**



**PRESSURIZED SPRAYER**

**Ground-based solar power plants using robots**



→ ROBOTIZED EQUIPMENTS TO ADAPT THE USE OF MAX SOLARIS SOLUTION IN GREAT SCALE INSTALATIONS.

DEPENDING HOW LARGE IS THE SOLAR PANEL FARM, YOU MAY CHOOSE TO USE A PRESSURIZED PUMP SPRAYER TO DO THE JOB. IT IS FASTER, OR SUPPLY MAX SOLARIS INTO THE ROBOTIZED PROCESS YOU ARE USING!

**STEP #2-** AFTER APPLYING THE SCRUBER PAD ALL OVER THE PV PANEL, NOW TAKE A SQUEEGEE WITH A SOFT RUBBER, AND BEGING PULLING THE DEPOSITED SOLUTION THAT IS DRIPPING OVER THE SURFACE OF THE PV PANEL. ALSO CLEAN THE EDGES OF THE PANEL AS THERE MAY BE A BUILD UP OF DIRT, DEBRIS OR EVEN ENCRUSTED.



(2.1) REPEAT THE WHOLE PROCESS IF NECESSARY DEPENDING ON THE DEGREE OF DIRTINESS.



THIS IS A PRESSURIZED SPRAYER

**#CHECK IT OUT – YOUR PV PANELS CLEANING IS READY!!**



**→ LET THE PANELS DRY IN TIME AND REPEAT THE PROCESS ON ALL PANELS IN THE INSTALLATION.**



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